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(71) Applicant (for all designated States except US): GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US).

(72) Inventors; and (75) Inventors/Applicants (for US only): JACOBS, Kenneth [US/US]; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M. [GB/US]; 56 Howard Street,

Reading, MA 01867 (US). LaVALLIE, Edward, R. [US/US]; 113 Ann Lee Road, Harvard, MA 01451 (US). COLLINS-RACIE, Lisa, A. [US/US]; 124 School Street, Acton, MA 01720 (US). EVANS, Cheryl [GB/US]; 18801

Bent Willow Circle, Germantown, MD 20874 (US).

(54) Title: SECRETED EXPRESSED SEQUENCE TAGS (SESTS)

(57) Abstract

(30) Priority Data:

60/104,435

Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.

(74) Agent: SPRUNGER, Suzanne, A.; American Home Products Corporation, Patent & Trademark Dept. - 2B, One Campus Drive, Parsippany, NJ 07054 (US).

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· WO 00/21990

SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

5 FIELD OF THE INVENTION

The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

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BACKGROUND OF THE INVENTION

Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed *in vivo*, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-secreted "chaff", wasting effort and resources in the process.

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Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted proteins, namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.

SUMMARY OF THE INVENTION

The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated 5 polynucleotide comprising a nucleotide sequence selected from the group consisting

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> NO:2137, SEQ ID NO:2138, SEQ ID NO:2139, SEQ ID NO:2140, SEO ID NO:2141, SEQ ID NO:2142, SEQ ID NO:2143, SEQ ID NO:2144, SEQ ID NO:2145, SEQ ID NO:2146, SEQ ID NO:2147, SEQ ID NO:2148, SEO ID NO:2149, SEQ ID NO:2150, SEQ ID NO:2151, SEQ ID NO:2152, SEO ID NO:2153, SEQ ID NO:2154, SEQ ID NO:2155, SEQ ID NO:2156, SEO ID NO:2157, SEQ ID NO:2158, SEQ ID NO:2159;

or a complement of said sequence.

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of:

In other embodiments, the present invention provides an isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEO ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID 15 NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEO ID NO:40, SEO ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID 20 NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEO ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEO ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEO ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID 25 NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEO ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEO ID NO:100, SEO ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEO ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEO ID NO:109. SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEO ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118,

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SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEO ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEO ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, 25 SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267. SEO ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271,

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NO:1849, SEQ ID NO:1850, SEQ ID NO:1851, SEQ ID NO:1852, SEQ ID () () () () () NO:1853, SEQ ID NO:1854, SEQ ID NO:1855, SEQ ID NO:1856, SEQ ID NO:1857, SEQ ID NO:1858, SEQ ID NO:1859, SEQ ID NO:1860, SEQ ID NO:1861, SEQ ID NO:1862, SEQ ID NO:1863, SEQ ID NO:1864, SEQ ID 5 NO:1865, SEQ ID NO:1866, SEQ ID NO:1867, SEQ ID NO:1868, SEQ ID NO:1869, SEQ ID NO:1870, SEQ ID NO:1871, SEQ ID NO:1872, SEQ ID NO:1873, SEQ ID NO:1874, SEQ ID NO:1875, SEQ ID NO:1876, SEQ ID NO:1877, SEQ ID NO:1878, SEQ ID NO:1879, SEQ ID NO:1880, SEO ID NO:1881, SEQ ID NO:1882, SEQ ID NO:1883, SEQ ID NO:1884, SEQ ID 10 NO:1885, SEQ ID NO:1886, SEQ ID NO:1887, SEQ ID NO:1888, SEQ ID NO:1889, SEQ ID NO:1890, SEQ ID NO:1891, SEQ ID NO:1892, SEQ ID NO:1893, SEQ ID NO:1894, SEQ ID NO:1895, SEQ ID NO:1896, SEO ID NO:1897, SEQ ID NO:1898, SEQ ID NO:1899, SEQ ID NO:1900, SEQ ID NO:1901, SEQ ID NO:1902, SEQ ID NO:1903, SEQ ID NO:1904, SEQ ID NO:1905, SEQ ID NO:1906, SEQ ID NO:1907, SEQ ID NO:1908, SEQ ID NO:1909, SEQ ID NO:1910, SEQ ID NO:1911, SEQ ID NO:1912, SEQ ID NO:1913, SEQ ID NO:1914, SEQ ID NO:1915, SEQ ID NO:1916, SEQ ID NO:1917, SEQ ID NO:1918, SEQ ID NO:1919, SEQ ID NO:1920, SEQ ID $\frac{1}{\pi \mathcal{L}} = \frac{1}{\pi} \left(\frac{1}{\pi} \frac{1}{\pi} \frac{1}{\pi} \frac{1}{\pi} \frac{1}{\pi} \right)$ NO:1921, SEQ ID NO:1922, SEQ ID NO:1923, SEQ ID NO:1924, SEQ ID 20 NO:1925, SEQ ID NO:1926, SEQ ID NO:1927, SEQ ID NO:1928, SEQ ID NO:1929, SEQ ID NO:1930, SEQ ID NO:1931, SEQ ID NO:1932, SEQ ID NO:1933, SEQ ID NO:1934, SEQ ID NO:1935, SEQ ID NO:1936, SEQ ID NO:1937, SEQ ID NO:1938, SEQ ID NO:1939, SEQ ID NO:1940, SEQ ID NO:1941, SEQ ID NO:1942, SEQ ID NO:1943, SEQ ID NO:1944, SEQ ID 25 NO:1945, SEQ ID NO:1946, SEQ ID NO:1947, SEQ ID NO:1948, SEQ ID NO:1949, SEQ ID NO:1950, SEQ ID NO:1951, SEQ ID NO:1952, SEQ ID NO:1953, SEQ ID NO:1954, SEQ ID NO:1955, SEQ ID NO:1956, SEQ ID NO:1957, SEQ ID NO:1958, SEQ ID NO:1959, SEQ ID NO:1960, SEQ ID NO:1961, SEQ ID NO:1962, SEQ ID NO:1963, SEQ ID NO:1964, SEQ ID 30 NO:1965, SEQ ID NO:1966, SEQ ID NO:1967, SEQ ID NO:1968, SEQ ID NO:1969, SEQ ID NO:1970, SEQ ID NO:1971, SEQ ID NO:1972, SEQ ID NO:1973, SEQ ID NO:1974, SEQ ID NO:1975, SEQ ID NO:1976, SEQ ID NO:1977, SEQ ID NO:1978, SEQ ID NO:1979, SEQ ID NO:1980, SEQ ID NO:1981, SEQ ID NO:1982, SEQ ID NO:1983, SEQ ID NO:1984, SEO ID

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or a complement of said sequence.

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In further embodiments, the present invention provides an isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ

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ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEO ID NO:113, SEO ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEO ID NO:118. SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEO ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131. SEO ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEO ID NO:136. SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEO ID NO:145. SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEO ID NO:154. SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEO ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEO ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEO ID NO:181. SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEO ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEO ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEO ID NO:203, SEO ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEO ID NO:217. SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEO ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253,

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15 or a complement of said sequence.

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In yet other embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEO ID NO:5, SEO ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEO ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEO ID NO:20, SEO ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEO ID NO:40, SEO ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEO ID NO:65, SEO ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID

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NO:2089, SEQ ID NO:2090, SEQ ID NO:2091, SEQ ID NO:2092, SEQ ID NO:2093, SEQ ID NO:2094, SEQ ID NO:2095, SEQ ID NO:2096, SEQ ID NO:2097, SEQ ID NO:2098, SEQ ID NO:2099, SEQ ID NO:2100, SEQ ID NO:2101, SEQ ID NO:2102, SEQ ID NO:2103, SEQ ID NO:2104, SEQ ID NO:2105, SEQ ID NO:2106, SEQ ID NO:2107, SEQ ID NO:2108, SEQ ID NO:2109, SEQ ID NO:2110, SEQ ID NO:2111, SEQ ID NO:2112, SEQ ID NO:2113, SEQ ID NO:2114, SEQ ID NO:2115, SEQ ID NO:2116, SEQ ID NO:2117, SEQ ID NO:2118, SEQ ID NO:2119, SEQ ID NO:2120, SEQ ID NO:2121, SEQ ID NO:2122, SEQ ID NO:2123, SEQ ID NO:2124, SEQ ID 10 NO:2125, SEQ ID NO:2126, SEQ ID NO:2127, SEQ ID NO:2128, SEQ ID NO:2129, SEQ ID NO:2130, SEQ ID NO:2131, SEQ ID NO:2132, SEQ ID NO:2133, SEQ ID NO:2134, SEQ ID NO:2135, SEQ ID NO:2136, SEQ ID NO:2137, SEQ ID NO:2138, SEQ ID NO:2139, SEQ ID NO:2140, SEQ ID NO:2141, SEQ ID NO:2142, SEQ ID NO:2143, SEQ ID NO:2144, SEQ ID NO:2145, SEQ ID NO:2146, SEQ ID NO:2147, SEQ ID NO:2148, SEQ ID 15 NO:2149, SEQ ID NO:2150, SEQ ID NO:2151, SEQ ID NO:2152, SEQ ID NO:2153, SEQ ID NO:2154, SEQ ID NO:2155, SEQ ID NO:2156, SEQ ID NO:2157, SEQ ID NO:2158, SEQ ID NO:2159;

or to a complement of said sequence.

The invention also provides for proteins encoded by the above-described polynucleotides. In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention also provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with such polynucleotide compositions. Also provided by the present invention are organisms that have enhanced, reduced, or modified expression of the gene(s) corresponding to the polynucleotide sequences disclosed herein.

Processes are also provided for producing a protein, which comprise:

- (a) growing a culture of the host cell transformed with such polynucleotide compositions in a suitable culture medium; and
- 30 (b) purifying the protein from the culture.
 The protein produced according to such methods is also provided by the present invention.

Protein compositions of the present invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody which specifically reacts with such protein are also provided by the present invention.

Methods are also provided for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition comprising a protein of the present invention, and/or a polynucleotide of the present invention, and a pharmaceutically acceptable carrier.

DETAILED DESCRIPTION

The nucleotide sequences of the sESTs of the present invention are reported in the Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each SEQ ID NO: in the Sequence Listing.

15 <u>Table 2</u>

10

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.) followed by the Clone ID No. for such sequence (e.g., AA239, AA249, etc.).

	1	PP85	17	PQ98	33	PT138	49	PT212
20	2	PP9	18	PR113	34	PT141	50	PT214
	3	PP95	19	PR24	35	PT144	51	PT215
	4	PP96	20	PR47	36	PT148	52	PT217
	5	PQ104	21	PR90	37	PT149	53	PT219
	6	PQ109	22	PS46	38	PT150	54	PT228
25	7	PQ114	23	PS48	39	PT159	55	PT230
	8	PQ12	24	PS51	40	PT16	56	PT233
	9	PQ134	25	PS59	41	PT171	57	PT249
	10	PQ15	26	PS66	42	PT179	58	PT259
	11	PQ28	27	PT109	4 3	PT184	59	PT26
30	12	PQ29	28	PT11	44	PT189	60	PT268
	13	PQ37	29	PT111	45	PT19	61	PT274
	14	PQ59	30	PT115	4 6	PT195	62	PT282
	15	PQ74	31	PT118	47	PT2	63	PT284
	16	PQ9	32	PT127	48	PT204	64	PT285

	65	PT293	99	PT398	133	PU164	167	PV110
	66	PT295	100	PT403	134	PU165	168	PV119
•	67	PT296	101	PT409	135	PU169	169	PV126
٠	· 68 ·	PT298	102	PT434	136	PU199	170	PV138
5	69	PT301	103	PT435	137	PU2	171	PV143
	70	PT307	104	PT437	138	PU214	172	PV149
	71	PT31	105	PT442	139	PU220	173	PV16
	72	PT310	106	PT444	140	PU226	174	PV163
	73	PT315	107	PT446	141	PU234	175	PV174
10	74	PT318	108	PT448	142	PU235	176	PV177
	7 5	PT324	109	PT449	143	PU237	177	PV183
	76	PT326	110	PT450	144	PU258	178	PV192
	77	PT328	111	PT451	145	PU26	179	PV193
	78	PT330	112	PT453	146,	PU261	180	PV198
15	79	PT332	113	PT455	147	PU264	181	PV203
	80	PT334	114	PT457	148	PU274	182	PV205
	81	PT343	115	PT464	149	PU276	183	PV210
	82	PT346	116	PT57	150	PU280	184	PV213
	83	PT347	117	PT65	151	PU282	185	PV214
20	84	PT348	118	PT67	152	PU289	186	PV23
	85	PT35	119	P171	153	PU291	187	PV231
	86	PI354	120	PT82	154	PU307	188	PV235
	87	PT355	121	PT97	155	PU312	189	P V269
	88	PT357	122	PU100	156	PU314	190	PV282
25	89	PT358	123	PU101	157	PU43	191	PV286
	· 90	PT364	124	PU107	158	PU56	192	PV291
-	91	PT365	125	PU113	159	PU61	193	PV294
	92	PT367	126	PU116	160	PU71	194	PV296
	93	PT375	127	PU117	161	PU77	195	PV297
30	94	PT38	128	PU123	162	PU85	196	PV30
	95	PT381	129	PU124	163	PU86	197	PV306
	96	PT383	130	PU134	164	PU89	198	PV313
	9 7	PT385	131	PU139	165	PU96	199	PV316
	98	PT387	132	PU142	166	PV107	200	PV323

	201	PV327	235	PV663	269	PW344	303	PW50
	202	P V 330	236	PV679	270	PW345	304	PW503
	203	PV339	237	PV70	271	PW356	305	PW504
	204	PV343	238	PV700	272	PW359	306	PW508
5	205	PV347	239	PV715	273	PW369	307	PW524
	206	PV35	2 <u>4</u> 0	PV72	274	PW370	308	PW528
	207	PV371	241	PV721	275	PW378	309	PW540
	208	PV383	242	PV725	276	PW381	310	PW567
	209	PV390	243	PW102	277	PW394	311	PW587
10	210	PV398	244	PW11	278	PW398	312	PW588
	211	PV439	245	PW114	279	PW4	313	PW60
	212	PV45	246	PW120	280	PW403	314	PW66
	213	P V47 2	247	PW123	281	PW410	315	PW73
	214	PV475	248	PW159	282	PW417	316	PW75
15	215	PV510	249	PW170	283	PW418	317	PW95
	216	PV511	250	PW186	284	PW422	_. 318	PX100
	217	PV512	251	PW192	285	PW429	319	PX103
	218	PV53	252	PW195	286	PW430	320	PX115
	21 9	PV534	253	PW214	287	PW435	321	PX125
20	220	PV535	254	PW245	288	PW437	322	PX129
	221	PV548	255	PW26	289	PW445	323	.PX135
	222	PV549	256	PW267	290	PW447	324	PX146
	223	PV560	257	PW269	291	PW448	325	PX151
	224	PV58	258	PW27	292	PW452	326	PX155
25	225	PV581	259	PW271	293	PW453	327	PX166
	226	PV585	260	PW288	294	PW459	328	PX169
	227	PV59	261	PW3	295	PW460	329	PX202
	228	PV6	262	PW303	296	PW463	330	PX207
	229	PV623	263	PW311	297	PW471	331	PX223
30	230	PV635	264	PW320	298	PW475	332	PX225
	231	PV64	265	PW328	299	PW482	333	PX51
	232	PV640	266	PW335	300	PW491	334	PX54
	233	PV65	267	PW337	301	PW496	335	PX60
	234	PV662	268	PW341	302	PW498	336	PX73

	337	PX75	371	PZ362	405	QB205	439	QB311
	338	PX94	372	PZ388	406	QB208	440	QB32
	339	PY10	373	Q13	407	QB211	441	QB326
	340	PY133	374	Q153	408	QB212	442	QB344
5	341	PY156	375	Q172	409	QB214	443	QB360
	342	PY16	376	Q303	410	QB216	444	QB370
	343	PY184	377	Q513	411	QB217	445	QB375
	344	PY187	378	Q66	412	QB22	446	QB379
	345 ,	PY195	3 7 9	Q691	413	QB221	447	QB389
10	346	PY202	380	Q719	414	QB232	448	QB39
	347	PY215	381	Q725	415	QB235	449	QB393
	348	PY220	382	QA133	416	QB24	450	QB395
	349	PY239	383	QA136	417	QB241	451	QB397
	350	PY251	384	QB10	418	QB242	452	QB401
15	351	PY254	385	QB120	419	QB245	453	QB405
	352	PY256	386	QB122	420	QB246	454	QB44
	353	PY260	387	QB131	421	QB25	455	QB56
	354	PY27	388	QB132	422	QB251	456	QC109
	355	PY34	389	QB135	423	QB252	457	QC113
20	356 3	PY38	. 390	QB136	424	QB254	458	QC12
	357	PY39	391	QB146	425	QB257	459	QC126
	358	PY40	392	QB149	426	QB259	460	QC133
	359	PY46	393	QB152	427	QB26	461	QC146
	360	PY54	394	QB153	428	QB264	462	QC147
25	361	PY7 [395	QB164	429	QB271	463	QC152
	362	PY9	396	QB165	430	QB280	464	QC156
	363	PY97	397	QB184	431	QB282	465	QC16
	364	PZ181	398	QB188	432	QB286	466	QC183
	365	PZ243	399	QB196	433	QB287	467	QC190
30	366	PZ300	400	QB199	434	QB289	468	QC199
	367	PZ311	401	QB2	435	QB299	469	QC215
	368	PZ313	402	QB20	436	QB300	470	QC221
	369	PZ331 -	403	QB200	437	QB301	471	QC226
	370	PZ355	404	QB203	438	QB307	472	QC228

	473	QC229	507	QC49	541	QD201	<i>57</i> 5	QF114
	474	QC243	508	QC496	542	QD210	576	QF116
	475	QC262	509	QC502	543	QD229	577	QF118
	476	QC265	510	QC506	5 44	QD242	578	QF121
5	477	QC280	511	QC51	545	QD251	579	QF122
	478	QC284	512	QC525	546	QD253	580	QF132
	479	QC297	513	QC534	547	QD275	581	QF139
	480	QC31	514	QC55	548	QD279	582	QF142
	481	QC333	515	QC556	549	QD285	583	QF147
10	482	QC337	516	QC575	550	QD286	584	QF151
	483	QC339	517	QC578	551	QD302	585	QF153
	484	QC365	51 8	QC584	552	QD310	586	QF16
	485	QC368	519	QC587	553	QD327	58 7	QF160
	486	QC380	520	QC59	554 _g	QD328	588	QF161
15	487	QC384	521	QC61	555	QD351	589	QF167
	488	QC386	522	QC611	556	QD388	, 5 90	QF17
	489	QC416	523	QC613	557	QD402	591	QF170
	490	QC42	524	QC617	558	QD407	592	QF175
	491	QC432	525	QC63	559	QD421	593	QF199
20	492	QC434	526	QC632	560	QD454	594	QF2
	493	QC436	527	QC638	561	QD465	595	QF220
	494	QC438	528	QC646	562	QD491	596	QF224
	495	QC439	529	QC664	563	QD518	59 7	QF23
	496	QC443	530	QC668	564	QD89	598	QF233
25	497	QC452	531	QC671	565	QD97	5 99	QF241
	498	QC458	532	QC687	566	QE193	600	QF248
	499	QC462	533	QC690	567	QE272	601	QF259
	500	QC466	534	QC698	568	QE313	602	QF266
	501	QC467	535	QC708	569	QE357	603	QF276
30	502	QC478	536	QC84	<i>5</i> 70	QE424	604	QF278
	503	QC483	537	QD103	571	QF101	605	QF282
	504	QC485	538	QD111	572	QF103	606	QF286
	505	QC487	53 9	QD151	573	QF109	607	QF298
	506	QC488	54 0	QD159	574	QF110	608	QF303

,	609	QF308	643	QF476	677	QF707	711	QG473
	610	QF317	644	QF497	678	QF714	712	QG492
	611	QF319	645	QF507	679	QF75	713	QG531
	612	QF320	646	QF511	680	QF76	714	QG537
5	613	QF327	647	QF513	681	QF93	715	QG542
	614	QF328	648	QF519	682	QF99	716	QG548
	615	QF331	649	QF526	683	QG107	717	QG570
	616	QF338	650	QF53	684	QG127	718	QG571
	617	QF35	651	QF530	685	QG137	719	QG576
10	618	QF359	652	QF539	686	QG170	720	QG577
	619	QF362	653	QF541	687	QG171	721	QG586
	620	QF363	654	QF542	688	QG175	722	QG591
	621	QF366	655°	QF556	689	QG185	723	QG593
	622	QF373	656	QF559	690.	QG325	724	QG596
15	623	QF375	657	QF56	691	QG342	725	QG619
	624	QF377	658	QF575	692	QG357	₂ 726	QG643
	625	QF383	659	QF582	693	QG361	727	QH160
	626	QF385	660	QF6	694	QG373	728	QH184
	627	QF388	661	QF619	695	QG376	729	QH209
20	628	QF393	662	QF620	696	QG378	730	QH211
	629	QF400	663	QF625	697	QG383	731	QH250
	630	QF401	664	QF631	698	QG389	732	QH30
	631	QF404	665	QF636	699	QG398	733	QH324
	632	QF43	666	QF644	700	QG428	734	QH417
25	633	QF442	667	QF65	701	QG433	7 35	QH48
	634	QF453	668	QF657	702	QG437	736	QH64
	635	QF454	669	QF662	703	QG443	737	QL104
	636	QF455	670	QF663	704	QG449	738	QL109
	637	QF459	671	QF675	705	QG459	739	QL118
30	638	QF46	672	QF679	706	QG465	740	QL125
	639	QF463	673	QF691	707	QG467	741	QL128
	640	QF464	674	QF696	708	QG469	742	QL129
	641	QF467	675	QF703	709	QG470	743	QL130
	642	QF475	676	QF706	710	QG472	744	QL131

	745	QL14	<i>7</i> 79	QO16	813	QS28	847	QU435
	746	QL16	780	QO164	814	QS39	848	QU449
	747	QL18	781	QO167	815	QS47	849	QU456
	748	QL31	782	QO169	816	QS82	850	QU459
5	749	QL33	783	Q017	817	QS85	851	QU475
	<i>7</i> 50	QL37	784	QO177	818	QT4	852	QU477
	751	QL4	785	QO203	819	QT6	853	QU483
	<i>7</i> 52	QL43	786	QO204	820	QU108	854	QU487
	7 53	QL54	787	QO206	821	QU156	855	QU499
10	7 54	QL80	788	QO37	822	QU159	856	QU512
	<i>7</i> 55	QL84	789	QO49	823	QU192	857	QU529
	<i>7</i> 56	QL98	790	Q075	824	QU210	858	QU532
	757	QM10	791	QO86	825	QU211	859	QU541
	<i>7</i> 58	QM13	792	QO91	82 <u>6</u>	QU218	860	QU542
15	759	QM20	793	QR10	827	QU225	861	QU549
	760	QM22	794	QR29	828	QU228	862	QU552
	761	QM23	7 95	QR40	829	QU234	863	QU567
	762	QM24	79 6	QR82	830	QU235	864	QU71
	7 63	QM34	797	QR91	831	QU243	865	QU97
20	764	QM39	798	QS120	832	QU260	866	QU98
	765	QM42	799	QS124	833	QU262	867	QV229
	766	QM54	800	QS13	834	QU298	868	QV235
	767	QM59	801	QS135	835	QU300	869	QV245
	768	QM77	802	QS14	836	QU303	870	QV257
25	769	QM89	803	QS140	837	QU307	871	QV289
	770	QN32	804	QS15	838	QU330	872	QV299
	<i>7</i> 71	QN7	805	QS153	839	QU332	873	QV306
	772	QO101	806	QS157	84 0	QU335	874	QV320
	773	Q0111	807	QS16	841	QU348	875	,QV326
30	774	QO115	808	QS160	842	QU355	876	QV327
•	<i>77</i> 5	QO120	809	QS162	843	QU386	877	QV331
	776	QO140	810	QS164	844	QU398	878	QV349
	777	QO143	811	QS171	845	QU418	879	QV363
	77 8	QO157	812	QS20	846	QU420	880	QV364

	881	QV378	915	QY1261	949	QY1496	983	QY26
	882	QV391	916	QY1263	950	QY1497	984	QY261
	883	QV521	917	QY1268	951	QY15	-985	QY266
	884	QV530	918	QY1271	952	QY1515	986	QY269
5	885.	QV531	919	QY1285	953	QY1517	987	QY271
	886	QV538	920	QY1288	954	QY1555	988	QY277
	887	QV549	921	QY129	955	QY1560	989	QY295
	888	QX228	922	QY1299	956	QY1561	990	QY3
	889	QX233	923	QY1306	957	QY1570	991	QY318
10	890	QX264	924	QY1309	958	QY1586	992	QY331
	891	QX312	925	QY132	959	QY1593	993	QY338
	892	QX317	926	QY1327	960	QY1597	994	QY349
	893	QX338	927	QY1339	961	QY1608	995	QY356
	894	QY100	928	QY1342	962	QY1609	996	QY359
15	895	QY1013	929	QY1344	9 63	QY1642	997	QY361
	896	QY1042	930	QY1345	964	QY1645	, 99 8	QY385
	897	QY1065	931	QY1346	965	QY1649	999	QY401
	898	QY1068	932	QY1349	966	QY1660	1000	QY426
	899	QY1073	933	QY1352	967	QY1662	1001	QY441
20	900	QY1075	934	QY1358	968	QY1681	1002	QY442
	901	QYI1	935	QY1361	969	QY1720	1003	QY444
	902	QY1102	936	QY1369	970	QY1748	1004	QY448
+	903	QY1103	937	QY1376	971	QY1750	1005	QY45
	904	QY1108	938	QY1379	972	QY1753	1006	QY450
25	905	QY1141	939	QY138	973	QY1754	1007	QY458
	906	QY1175	940	QY1383	974	QY1755	1008	QY471
	907	QY1180	941 .	QY1388	975	QY1756	1009	QY478
.'	908	QY12	942	QY1394	976	QY1775	1010	QY502
	909	QY1209	943	QY1418	977	QY1781	1011	QY51
30	910	QY1215	944	QY1437	9 7 8	QY189	1012	QY536
	911	QY1221	945	QY1445	979	QY214	1013	QY550
	912	QY1224	946	QY1462	980	QY220	1014	QY562
	913	QY1256	947	QY1488	981	QY247	1015	QY566
	914	QY1259	948	QY1495	982	QY257	1016	QY571

	1017	QY593	1051	QZ452	1085	RB448	1119	RB806
	1018	QY623	1052	QZ466	1086	RB485	1120	RB81
	1019	QY644	1053	QZ484	1087	RB497	1121	RB810
	1020	QY704	1054	QZ492	1088	RB513	1122	RB819
5	1021	QY720	1055	QZ498	1089	RB535	1123	RB822
	1022	QY722	1056	RA1018	1090	RB540	1124	RB98
	1023	QY740	1057	RA1121	1091	RB541	1125	RC11
	1024	QY742	1058	RA138	1092	RB544	1126	RC14
	1025	QY746	1059	RA281	1093	RB580	1127	RC21
10	1026	QY757	1060	RA475	1094	RB619	1128	RC29
	1027	QY769	1061	RA562	1095	RB623	1129	RC3
	1028	QY798	1062	RA574	1096	RB627	1130	RC37
	1029	QY801	1063	RA618	109 7	RB630	1131	RC57
	1030	QY812	1064	RA726	10 <u>9</u> 8	RB649	1132	RC58
15	1031	QY823	1065	RA885	1099	RB66	1133	RC60
	1032	QY824	1066	RA892	1100	RB666	į 1134	RC65
	1033	QY833	1067	RA900	1101	RB668	1135	RC7
	1034	QY835	1068	RA905	1102	RB673	1136	RC76
	1035	QY856	1069	RB126	1103	RB674	1137	RD1025
20	1036	QY859	1070	RB160	1104	RB688	1138	RD1027
	1037	QY863	1071	RB164	1105	RB693	1139	RD103
	1038	QY87	1072	RB198	1106	RB714	1140	RD1030
	1039	QY880	1073	RB202	1107	R B727	1141	RD1039
	1040	QY884	1074	RB206	1108	RB738	1142	RD1046
25	1041	QY89	1075	RB218	1109	RB749	1143	RD1049
	1042	QY99	1076	RB231	1110	RB758	1144	RD1054
	1043	QZ118	1077	RB312	1111	RB771	1145	RD1058
	10 44	QZ127	1078	RB313	1112	RB773	1146	RD1059
	1045	QZ159	1079	RB342	1113	RB778	1147	RD1068
30	1046	QZ284	1080	RB382	1114	RB788	1148	RD1073
	1047	QZ290	1081	RB40	1115	R B7 89	1149	RD1094
	1048	QZ311	1082	RB409	1116	RB791	1150	RD1101
	1049	QZ382	1083	RB419	1117	R B792	1151	RD1102
	1050	QZ422	1084	RB422	1118	RB80	1152	RD1109

	1153	RD1111	1187	RD542	•	1221	RD925	1255	RG184	
	1154	RD1124	1188	RD567	. '	1222	RD942	1256	RG199	
•	1155	RD1131	1189	RD569		1223	RD946	1257	RG200	-
	1156	RD1141	1190	RD59		1224	RD954	1258	RG211	
5	1157	RD1143	1191	RD592		1225	RD959	1259	RG219	:
	1158	RD1147	1192	RD610		1226	RD960	1260	RG241	
	1159	RD1156	1193	RD616		1227	RD962	1261	RG246	
	1160	RD1158	1194	RD62		1228	RD966	1262	RG248	•
	1161	RD1168	1195	RD649		1229	RD969	1263	RG272	
10	1162	RD1179	1196	RD652		1230	RD989	1264	RG278	÷
	1163	RD1195	1197	RD67		1231	RD996	1265	RG287	
	1164	RD187	1198	RD680		1232	RD997	1266	RG296	
	1165	RD194	1199	RD76		1233	RE127	1267	RG299	
	1166	RD207	1200	RD775		1234	RE133	1268	RG315	
15	1167	RD210	1201	RD778		1235	RE15	1269	RG325	
	1168	RD214	1202	RD786		1236	RE219	1270	RG33	
	1169	RD229	1203	RD788		1237	RE257	1271	RG333	
	1170	RD232	1204	RD792		1238	RE326	12 7 2	RG342	
	1171	RD252	1205	RD798		1239	RE345	1273	RG348	
20	1172	RD263	1206	RD8		1240	RE365	1274	RG352	1 a
	1173	RD309	1207	RD807		1241	RE72	1275	RG353	
	1174	RD310	1208	RD810		1242	RF282	1276	RG367	٠
	1175	RD312	1209	RD811		1243	RF439	1277	RG390	
	1176	RD392	1210	RD825		1244	RF476	1278	RG407	
25	1177	RD432	1211	RD826		1245	RF499	1 27 9	RG409	•
	1178	RD435	1212	RD852		1246	RF84	1280	RG419	
	1179	RD440	1213	RD853		1247	RG105	1281	RG445	
	1180	RD456	1214	RD863		1248	RG113	1282	RG447	
	1181	RD47	1215	RD870		1249	RG133	1283	RG452	
30	1182	RD5	1216	RD876		1250	RG137	1284	RG453	
	1183	RD517	1217	RD902		1251	RG145	1285	RG473	
	1184	RD52	1218	RD913		1252	RG158	1286	RG48	
	1185	RD530	1219	RD917	•	1253	RG177	1287	RG481	
	1186	RD539	1220	RD918		1254	RG178	1288	RG482	

	1289	RG494	1323	RI130	1357	RJ497	1391	. RJ897
	1290	RG522	1324	RI21	1358	RJ499	1392	RJ898
	1291	RG528	1325	RI231	1359	RJ504	1393	RJ900
	1292	RG531	1326	RI91	1360	RJ507	1394	RJ903
5	1293	RG533	1327	RJ118	1361	RJ520	1395	RJ925
	1294	RG539	1328	RJ137	1362	RJ525	1396	RJ95
	1295	RG555	1329	RJ139	1363	RJ533	1397	RJ952
	1296	RG563	1330	RJ150	1364	RJ545	1398	RJ965
	1297	RG571	1331	RJ170	1365	RJ552	1399	RK100
10	1298	RG575	1332	RJ187	1366	RJ601	1400	RK115
	1299	RG583	1333	RJ214	1367	RJ652	1401	RK137
	1300	RG590	1334	RJ216	1368	RJ653	1402	RK144
	1301	RG593	1335	RJ223	1369	RJ656	1403	RK170
	1302	RG604	1336	RJ224	1370	RJ7	1404	RK211
15	1303	RG615	1337	RJ23	1371	RJ713	1405	RK216
	1304	RG631	1338	RJ243	1372	RJ719	_i 1406	RK23
	1305	RG633	1339	RJ286	1373	RJ 724	1407	RK253
	1306	RG636	1340	RJ288	1374	RJ 72 7	1408	RK255
	1307	RG64	1341	RJ338	1375	RJ731	1409	RK260
20	1308	RG652	1342	RJ348	1376	RJ742	1410	RK265
	1309	RG656	1343	RJ353	1377	RJ749	1411	RK28
	1310	RG661	1344	RJ359	1378	RJ777	1412	RK41
	1311	RG663	1345	RJ361	1379	RJ 779	1413	RK47
	1312	RG671	1346	RJ384	1380	RJ 781	1414	RK59
25	1313	RH14	1347	RJ4	1381	RJ 792	1415	RK65
	1314	RH17	1348	RJ402	1382	RJ8	1416	RK80
	1315	RH20	1349	RJ405	1383	RJ813	1417	RL106
	1316	RH22	1350	RJ431	1384	RJ828	1418	RL121
	1317	RH26	1351	RJ455	1385	RJ85	1419	RL122
30	1318	RH31	1352	RJ462	1386	RJ859	1420	RL128
•	1319	RH41	1353	RJ465	1387	RJ870	1421	RL146
	1320	RH445	1354	RJ471	1388	RJ874	1422	RL15
	1321	RH510	1355	RJ482	1389	RJ890	1423	RL151
	1322	RI10	1356	RJ493	1390	RJ891	1424	RL169

	1425	RL188	1459	RL862	1493	RT1	1527	RU198
	1426	RL19	1460	RL87	1494	RT104	1528	RU199
	1427	RL245	1461	RL884	1495	RT11	1529	RU204
-	1428	RL266	1462	RL885	1496	RT113	1530	RU220
5	1429	RL295	1463	RL886	1497	RT12	1531	RU233
	1430	RL310	1464	RL905	1498	RT120	1532	RU244
	1431	RL334	1465	RL957	1499	RT138	1533	RU255
	1432	RL336	1466	RL967	1500	RT15	1534	RU286
	1433	RL341	1467	RL969	1501	RT16	1535	RU288
10	1434	RL344	1468	RL979	1502	RT28	1536	RU292
	1435	RL356	1469	RM19	1503	RT34	1537	RU294
	1436	RL359	1470	RM26	1504	RT40	1538	RU327
	1437	RL360	1471	RN14	1505	RT42	1539	RU330
	1438	RL379	1472	RN17	1506	RT63	1540	RU333
15	1439	RL397	1473	RN43	1507	RT69	1541	RU355
	1440	RL455	1474	RN46	1508	RT70	1542	RU375
	1441	RL465	1475	RN55	1509	RT85	1543	RU388
	1442	RL487	1476	RN65	1510	RT88	1544	RU391
	1443	RL498	1477	RN75	1511	RT89	1545	RU50
20	1444	RL52	1478	RN81	1512	RT96	1546	RU71
	1445	RL565	1479	RN82	1513	RU11	1547	RU80
	1446	RL579	1480	RN85	1514	RÚ12	1548	RV106
	1447	RL606	1481	RP123	1515	RU120	1549	RV122
	1448	RL645	1482	RP146	1516	RU13	1550	RV144
25	1449		1483	RP161	1517	RU135	1551	
	1450	RL693	1484	RP33	1518	RU14	1552	RV175
	1451	RL718	1485	RP34	1519	RU140	1553	RV21
	1452	RL721	1486	RP57	1520	RU146	1554	RV228
	1453	RL743	1487	RP81	1521	RU147	1555	RV239
30	1454	RL749	1488	RP87	1522	RU15	1556	RV247
	1455	RL808	1489	RQ15	1523	RU157	1557	RV252
-	1456	RL83	1490	RR19	1524	RU172	1558	RV263
	1457	RL832	1491	RR20	1525	RU179	1559	RV271
	1458	RL840	1492	RS2	1526	RU182	1560	RV296

	1561	RV298	1595	RV805	1629	RX205	1663	RX536
	1562	RV305	1596	RV880	1630	RX209	1664	RX538
	1563	R V3 10	1597	RV9	1631	RX213	1665	RX554
	1564	RV319	1598	RW109	1632	RX22	1666	RX66
5	1565	RV422	15 99	RW123	1633	RX245	1667	RX90
	1566	RV465	1600	RW193	1634	RX249	1668	RY140
	1567	RV476	1601	RW197	1635	RX252	1669	RY152
	1568	RV48	1602	RW253	1636	RX255	1670	RY193
	1569	RV49	1603	RW257	1637	RX263	1671	RY24
10	1570	RV490	1604	RW278	1638	RX282	1672	RY25
	1571	RV498	1605	RW290	1639	R X294	1673	RY295
	1572	RV504	1606	RW302	1640	RX314	1674	RY297
	1573	RV524	1607	RW344	1641	RX322	1675	RY307
	1574	RV555	1608	RW38	1642	RX326	1676	RY328
15	1575	RV576	1609	RW382	1643	RX332	1677	RY35
	1576	RV579	1610	RW440	1644	RX363	1678 ·	RY385
	1577	RV598	1611	RW447	1645	RX373	1679	RY394
	1578	RV612	1612	RW456	1646	RX375	1680	RY418
	1579	RV627	1613	RW464	1647	RX392	1681	RY429
20	1580	RV634	1614	RW480	1648	RX40	1682	RY438
	1581	RV635	1615	RW488	1649	RX417	1683	RY450
	1582	RV637	1616	RW51	1650	RX419	1684	RY465
	1583	RV643	1617	RW513	1651	RX431	1685	RY47
	1584	RV656	1618	RW520	1652	RX443	1686	RY471
25	1585	RV681	1619	RW58	1653	RX466	1687	RY496
	1586	RV 7 05	1620	RW661	1654	RX478	1688	RY535
	1587	RV707	1621	RW693	1655	RX479	1689	RY551
	1588	RV72	1622	RW84	1656	RX487	1690	RY580
	1589	RV724	1623	RX127	1657	RX491	1691	RY674
30	1590	RV759	1624	RX166	1658	RX499	1692	RY675
	1591	RV778	1625	RX176	1659	RX510	1693	RY681
	1592	RV796	1626	RX18	1660	RX527	1694	RY80
	1593	RV801	1627	RX185	1661	RX528	1695	RY81
	1594	RV803	1628	RX192	1662	RX534	1696	RZ126

	1697	RZ129	1731	SA139	1	765 SB15		17 9 9	SC265
	1698	RZ142	1732	SA140	1	766 SB17	1 ·	1800	SC271
	1699	RZ16	1733	SA323	7 1	767 SB17	2	1801	SC273
	1700	RZ221	1734	SA33	. 13	768 SB20		1802	SC294
5	1701	RZ224	1 7 35	SA331	12	769 SB22	3	1803	SC296
	1702	RZ226	1 7 36	SA34	12	770 SB230	כ	1804	SC298
	1703	RZ262	1737	SA361	12	771 SB23	5	1805	SC318
	1704	RZ304	1738	SA404	12	772 SB250	כ	1806	SC341
	1705	RZ323	1739	SA481	17	773 SB256	5	1807	SC359
10	1706	RZ361	1740	SA488	17	774 SB276	5	1808	SC370
	1707	RZ405	1741	SA493	17	775 SB280)	1809	SC382
	1708	RZ409	1742	SA508	17	776 SB342	2	1810	SC394
	1 709	RZ411	1 74 3	SA537	17	777 SB36		1811	SC40
	1710	RZ425	1744	SA539	17	78 SB39		1812	SC401
15	1711	RZ435	1745	SA543	17	79 SB44	-	1813	SC404
	1712	RZ44	1746	SA569	.17	80 SB49	· ·	1814	SC46
	1713	RZ454	1747	SA570	- 17	81 SB66	,	1815	SC58
	1714	RZ514	1748	SA576	17	82 SB86		1816.	SC59
	1715	RZ527	1749	SA601	17	83 SC115	i	1817	SC88
20	1716	RZ553	1 75 0	SA624	17	84 SC117	,	1818	SC89
	- 1 717	RZ568	1751	SA627	17	85 SC136	•	1819	SD55
	∍1 7 18	RZ599	1752	SA629	17	86 SC144	•	1820:	SE42
	1719	RZ610	1 7 53	SA638	. 17	87 SC145	;	1821	SE71
	1720	RZ627	1 754	SA643	17	88 SC163	ı	1822	SF120
25	1721	RZ664	1 7 55	SA649	17	89 SC164		1823	SF124
	1722	RZ670	1 75 6	SA664	179	90 SC17		1824	SF125
	1723	RZ692	1757	SA679	179	91 SC1 7 3		1825	SF138
	1724	RZ698	1 <i>7</i> 58	SA74	179	92 SC176		1826	SF146
	1725	RZ730	1 7 59	SA79	179	93 SC193		1827	SF156
30	1 726	S1	1760	SB12	179	94 SC199		1828	SF172
	1727	S199	1761	SB123	179	95 SC209		1829	SF173
	1728	SA120	1762	SB147	179	6 SC226		1830	SF180
	1729	SA122	1763	SB148 .	179	97 SC244		1831	SF184
	1730	SA124	1764	SB149	179	98 SC245		1832	SF206

	1833	SF222	1867	SF59	1 9 01	SG352	1 9 35	WG63
	1834	SF226	1868	SF592	1902	SG77	1936	WG67
	1835	SF240	1869	SF601	1903	T85	1937	WG75
	1836	SF245	1870	SF608	1904	V207	1938	WG76
5	1837	SF249	1871	SF624	1905	V222	1939	WG77
	1838	SF265	1872	SF626	1906	WA109	1940	WG9
	1839	SF275	1873	SF637	1907	WA118	1941	WG90
	1840	SF286	1874	SF67	1908	WA129	1942	WG93
	1841	SF292	1875	SF69	1909	WA135	1943	WG94
10	1842	SF302	1876	SF78	1910	WA15	1944	WH101
	1843	SF303	1877	SF98	1911	WA153	1945	WH110
	1844	SF307	1878	SG1	1912	WA154	1946	WH113
	1845	SF309	1879	SG122	1913	WA545	1947	WH114
	1846	SF315	1880	SG124	1914	WC73	1948	WH117
15	1847	SF339	1881	SG126	1915	WC74	1949	WH119
	1848	SF34	1882	SG127	1916	WC88	_≠ 1950	WH120
	1849	SF340	1883	SG148	1917	WF2	¹⁹⁵¹	WH128
	1850	SF348	1884	SG15	1918	WF3	1952	WH129
	1851	SF371	1885	SG169	1919	WF4	1953	WH13
20	1852	SF379	1886	SG213	1920	WG14	1954	WH130
	1853	SF401	1887	SG243	1921	WG21	1955	WH133
	1854	SF429	1888	SG261	1922	WG24	1956	WH135
	1855	SF442	1889	SG262	1923	WG26	1957	WH140
	1856	SF444	1890	SG272	1924	WG30	1958	WH142
25	1857	SF445	1891	SG275	1925	WG31	1959	WH146
	1858	SF465	1892	SG281	1926	WG32	1960	WH150
	1859	SF472	1893	SG293	1927	WG34	1961	WH155
	1860	SF497	1894	SG295	1928	WG39	1962	WH16
	1861	SF499	1895	SG312	1929	WG41	1963	WH169
30	1862	SF50	1896	SG334	1930	WG44	1964	WH17
•	1863	SF517	1897	SG335	1931	WG53	1965	WH170
	1864	SF553	1898	SG345	1932	WG55	1966	WH175
	1865	SF577	1899	SG347	1933	WG59	1967	WH178
	1866	SF582	1900	SG35	1934	WG62	1968	WH179

	1969	WH180	2003	WI143	2037	WJ200	2071	WL554
	1970	WH181	2004	WI144	2038	WJ202	2072	WL556
	1971	WH185	2005	WI145	2039	WJ231	2073	WL560
	1972	WH200	2006	WI150	2040	WJ233	2074	WL561
5	1973	WH204	2007	WI152	2041	WJ236	2075	WL566
	1974	WH209	2008	WI156	2042	WJ238	2076	WL567
	1975	WH211	2009	WI168	2043	WJ243	2077	WL570
	1976	WH214	2010	WI173	2044	WJ245	2078	WL580
	1977	WH216	2011	WI175	2045	WJ248	2079	WL582
10	1978	WH219	2012	WI178	2046	WJ275	2080	WL637
	1979	WH22	2013	WI18	2047	WJ289	2081	WL644
	1980	WH224	2014	WI181	2048	WJ291	2082	WL647
	1981	WH230	2015	WI232	2049	WJ295	2083	WL657
	1982	WH26	2016	WI233	2050	WJ296	2084	WL663
15	1983	WH27	2017	WI234	2051	WJ301	2085	WL664
	1984	WH3	2018	WI239	2052	WK159	2086	WL666
	1985	WH30	2019	WI243	2053	WK168	2087	Z107
	1986	WH39	2020	WI244	2054	WK172	2088	Z123
	1987	WH40	2021	WI246	2055	WK174	2089	Z132
20	1988	WH43	2022	WI248	2056	WK177	2090	Z134
	1989	WH44	2023	WI251	2057	WK178	2091	Z135
	1990	WH47	2024	W1257	2058	WK185	2092	Z139
	1991	WI1	2025	WI265	2059	WK199	2093	Z145
	1992	WI108	2026	WI266	2060	WK200	2094	Z217
25	1993	WI109	2027	WI267	2061	WK215	2095	Z218
•	1994	WI114	2028	WI268	2062	WK220	2096	Z243
	1995	WI116	2029	WI270	2063	WK225	2097	Z250
	1996	WI119	2030	WI44	2064	WK228	2098	Z253
	1997	WI12	2031	WI9	2065	WK234	2099	Z254
30	1998	WI125	2032	WI96	2066	WK247	2100	Z256
,	1999	WI13	2033	WJ168	2067	WL:503	2101	Z260
	2000	WI131	2034	WJ176	2068	WL508	2102	Z286
	2001	WI139	2035	WJ192	2069	WL519	2103	Z287
	2002	WI142	2036	WJ193	2070	WL546	2104	Z288

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	2105	Z294		2139	Z729
	2106	Z320		2140	Z7 38
	2107	Z327		2141	Z74 3
	2108	Z328		2142	Z747
5	2109	Z338		2143	Z74 8
	2110	Z343		2144	Z749
	2111	Z372		2145	<i>Z7</i> 50
	2112	Z391		2146	Z756
	2113	Z415		2147	<i>Z</i> 768
10	2114	Z450		2148	Z7 69
	2115	Z459		2149	<i>Z</i> 792
	2116	Z469		2150	Z805
	2117	Z480		2151	Z806
	2118	Z497		2152	Z837
15	2119	Z504		2153	Z843
	2120	Z577		2154	Z847
	2121	Z584		2155	Z852
	2122	Z 590		2156	Z856
	2123	Z594		2157	Z864
20	2124	Z599		2158	Z865
	2125	Z603		2159	Z871
	2126	Z607			
	2127	Z610	·		
	2128	Z617			
25	2129	Z624			
	2130	Z631			
	2131	Z633			
	2132	Z654			
	2133	Z656			
30	2134	Z660			
	2135	Z666			
	2136	Z674			
	2137	Z677			
	2138	Z719			

The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified in Table 3 by the one and two letter designations used in the relevant "Clone ID No." in Table 2. For example, a clone designated as "PP85" would have been isolated from a human adult blood (lymphoblastic leukemia MOLT-4) library (i.e., selection "PP") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs, DNAs and RNA: DNA hybrids. 10

As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors) from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention. Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, et al., Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, et al., J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decavalent form of the protein 30 of the invention.

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The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form(s) of such protein may be obtained by expression of the disclosed

full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence(s) of the mature form(s) of the protein may also be determinable from the amino acid sequence of the full-length form.

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The present invention also provides genes corresponding to the polynucleotide sequences disclosed herein. "Corresponding genes" are the regions of the genome that are transcribed to produce the mRNAs from which cDNA polynucleotide sequences are derived and may include contiguous regions of the genome necessary for the regulated expression of such genes. Corresponding genes may therefore include but are not limited to coding sequences, 5' and 3' untranslated regions, alternatively spliced exons, introns, promoters, enhancers, and silencer or suppressor elements. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information for identification and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials. An "isolated gene" is a gene that has been separated from the adjacent coding sequences, if any, present in the genome of the organism from which the gene was isolated.

The chromosomal location corresponding to the polynucleotide sequences disclosed herein may also be determined, for example by hybridizing appropriately labeled polynucleotides of the present invention to chromosomes in situ. It may also be possible to determine the corresponding chromosomal location for a disclosed polynucleotide by identifying significantly similar nucleotide sequences in public databases, such as expressed sequence tags (ESTs), that have already been mapped to particular chromosomal locations. For at least some of the polynucleotide sequences disclosed herein, public database sequences having at least some similarity to the polynucleotide of the present invention have been listed by database accession number. Searches using the GenBank accession numbers of these public database sequences can then be performed at an Internet site provided by the National Center for Biotechnology Information having the address www.ncbi.nlm.nih.gov/UniGene, in order to identify "UniGene clusters" of overlapping sequences. Many of the "UniGene clusters" so identified will already have been mapped to particular chromosomal sites.

Organisms that have enhanced, reduced, or modified expression of the gene(s) corresponding to the polynucleotide sequences disclosed herein are provided. The desired change in gene expression can be achieved through the use of antisense polynucleotides or ribozymes that bind and/or cleave the mRNA transcribed from the gene (Albert and Morris, 1994, Trends Pharmacol. Sci. 15(7): 250-254; Lavarosky et al., 1997, Biochem. Mol. Med. 62(1): 11-22; and Hampel, 1998, Prog. Nucleic Acid Res. Mol. Biol. 58: 1-39; all of which are incorporated by reference herein). Transgenic animals that have multiple copies of the gene(s) corresponding to the polynucleotide sequences disclosed herein, preferably produced by transformation of cells with genetic constructs that are stably maintained within the transformed cells and their progeny, are provided. Transgenic animals that have modified genetic control regions that increase or reduce gene expression levels, or that change temporal or spatial patterns of gene expression, are also provided (see European Patent No. 0 649 464 B1, incorporated by reference herein). In addition, organisms are provided in which the gene(s) corresponding to the polynucleotide sequences disclosed herein have been partially or completely inactivated, through insertion of extraneous sequences into the corresponding gene(s) or through deletion of all or part of the corresponding gene(s). Partial or complete gene inactivation can be accomplished through insertion, preferably followed by imprecise excision, of transposable elements (Plasterk, 1992, Bioessays 14(9): 629-633; Zwaal et al., 1993, Proc. Natl. Acad. Sci. USA 90(16): 7431-7435; Clark et al., 1994, Proc. Natl. Acad. Sci. USA 91(2): 719-722; all of which are incorporated by reference herein), or through homologous recombination, preferably detected by positive/negative genetic selection strategies (Mansour et al., 1988, Nature 336: 348-352; U.S. Patent Nos. 5,464,764; 5,487,992; 5,627,059; 5,631,153; 5,614, 396; 5,616,491; and 5,679,523; all of which are incorporated by reference herein). These organisms with altered gene expression are preferably eukaryotes and more preferably are mammals. Such organisms are useful for the development of non-human models for the study of disorders involving the corresponding gene(s), and for the development of assay systems for the identification of molecules that interact with the protein product(s) of the corresponding gene(s).

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Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein

are deleted such that the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

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Proteins and protein fragments of the present invention include proteins with amino acid sequence lengths that are at least 25% (more preferably at least 50%, and most preferably at least 75%) of the length of a disclosed protein and have at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% or 95% identity) with that disclosed protein, where sequence identity is determined by comparing the amino acid sequences of the proteins when aligned so as to maximize overlap and identity while minimizing sequence gaps. Also included in the present invention are proteins and protein fragments that contain a segment preferably comprising 8 or more (more preferably 20 or more, most preferably 30 or more) contiguous amino acids that shares at least 75% sequence identity (more preferably, at least 85% identity; most preferably at least 95% identity) with any such segment of any of the disclosed proteins.

In particular, sequence identity may be determined using WU-BLAST (Washington University BLAST) version 2.0 software, which builds upon WU-BLAST version 1.4, which in turn is based on the public domain NCBI-BLAST version 1.4 (Altschul and Gish, 1996, Local alignment statistics, Doolittle ed., Methods in Enzymology 266: 460-480; Altschul et al., 1990, Basic local alignment search tool, Journal of Molecular Biology 215: 403-410; Gish and States, 1993, Identification of protein coding regions by database similarity search, Nature Genetics 3: 266-272; Karlin and Altschul, 1993, Applications and statistics for multiple high-scoring segments in molecular sequences, Proc. Natl. Acad. Sci. USA 90: 5873-5877; all of which are incorporated by reference herein). WU-BLAST version 2.0 executable programs for several UNIX platforms can be downloaded from the Internet file-transfer protocol (FTP) site ftp://blast.wusil.edu/blast/executables. The complete suite of search programs (BLASTP, BLASTN, BLASTX, TBLASTN, and TBLASTX) is provided at that site, in addition to several support programs. WU-BLAST 2.0 is copyrighted and may not be sold or redistributed in any form or manner without the express written consent of the author; but the posted executables

may otherwise be freely used for commercial, nonprofit, or academic purposes. In all search programs in the suite - BLASTP, BLASTN, BLASTX, TBLASTN and TBLASTX -- the gapped alignment routines are integral to the database search itself. and thus yield much better sensitivity and selectivity while producing the more easily interpreted output. Gapping can optionally be turned off in all of these programs, if desired. The default penalty (Q) for a gap of length one is Q=9 for proteins and BLASTP, and Q=10 for BLASTN, but may be changed to any integer value including zero, one through eight, nine, ten, eleven, twelve through twenty, twenty-one through fifty, fifty-one through one hundred, etc. The default per-residue penalty for extending a gap (R) is R=2 for proteins and BLASTP, and R=10 for BLASTN, but may be changed to any integer value including zero, one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve through twenty, twenty-one through fifty, fifty-one through one hundred, etc. Any combination of values for Q and R can be used in order to align sequences so as to maximize overlap and identity while minimizing sequence gaps. The default amino acid comparison matrix is BLOSUM62, but other amino acid comparison matrices such as PAM can be utilized.

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Species homologues of the disclosed polynucleotides and proteins are also provided by the present invention. As used herein, a "species homologue" is a protein or polynucleotide with a different species of origin from that of a given protein or polynucleotide, but with significant sequence similarity to the given protein or polynucleotide. Preferably, polynucleotide species homologues have at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% identity) with the given polynucleotide, and protein species homologues have at least 30% sequence identity (more preferably, at least 45% identity; most preferably at least 25 60% identity) with the given protein, where sequence identity is determined by comparing the nucleotide sequences of the polynucleotides or the amino acid sequences of the proteins when aligned so as to maximize overlap and identity while minimizing sequence gaps. Species homologues may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening 30 a suitable nucleic acid source from the desired species. Preferably, species homologues are those isolated from mammalian species. Most preferably, species homologues are those isolated from certain mammalian species such as, for example,

Pan troglodytes, Gorilla gorilla, Pongo pygmaeus, Hylobates concolor, Macaca mulatta, Papio papio, Papio hamadryas, Cercopithecus aethiops, Cebus capucinus, Aotus trivirgatus, Sanguinus oedipus, Microcebus murinus, Mus musculus, Rattus norvegicus, Cricetulus griseus, Felis catus, Mustela vison, Canis familiaris, Oryctolagus cuniculus, Bos taurus, Ovis aries, Sus scrofa, and Equus caballus, for which genetic maps have been created allowing the identification of syntenic relationships between the genomic organization of genes in one species and the genomic organization of the related genes in another species (O'Brien and Seuánez, 1988, Ann. Rev. Genet. 22: 323-351; O'Brien et al., 1993, Nature Genetics 3:103-112; Johansson et al., 1995, Genomics 25: 682-690; Lyons et al., 1997, Nature Genetics 15: 47-56; O'Brien et al., 1997, Trends in Genetics 13(10): 393-399; Carver and Stubbs, 1997, Genome Research 7:1123-1137; all of which are incorporated by reference herein).

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The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotides which also encode proteins which are identical or have significantly similar sequences to those encoded by the disclosed polynucleotides. Preferably, allelic variants have at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% identity) with the given polynucleotide, where sequence identity is determined by comparing the nucleotide sequences of the polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps. Allelic variants may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from individuals of the appropriate species.

The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides that hybridize under reduced stringency conditions, more preferably stringent conditions, and most preferably highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in the table below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

:	Stringency Condition	Polynucleotide Hybrid	Hybrid Length (bp)‡	Hybridization Temperature and Buffer [†]	Wash Temperature and Buffer [†]
- 11.7	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	В	DNA:DNA	<50	T _B *; 1xSSC	T _B *; 1xSSC
5	С	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	D	DNA:RNA	<50	T _D *; 1xSSC	T _D *; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
	F	RNA:RNA	<50	T _r *; 1xSSC	Tp*; 1xSSC
<i>:</i> . ·	G	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1x5SC
10	H	DNA:DNA	<50	T _H *; 4xSSC	T _H *; 4xSSC
*	r	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
,	1	DNA:RNA	<50	Tj*; 4xSSC	T,*; 4xSSC
i	ĸ	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	<50	T _L *; 2xSSC	T _t *; 2xSSC
15	M	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2::SSC
	N	DNA:DNA	<50	T _N ; 6xSSC	T _N *; 6xSSC
	0	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamide	55°C; 2xSSC
	P	DNA:RNA	<50	T _p *; 6xSSC	Tp*;6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2×SSC
20.	R	RNA:RNA	< 50	T _x *;4xSSC	T,*;4xSSC

^{*:} The hybrid length is that anticipated for the hybridized region(s) of the hybridizing polynucleotides. When hybridizing a polynucleotide to a target polynucleotide of unknown sequence, the hybrid length is assumed to be that of the hybridizing polynucleotide. When polynucleotides of known sequence are hybridized, the hybrid length can be determined by aligning the sequences of the polynucleotides and identifying the region or regions of optimal sequence complementarity.

^{*:} SSPE (1xSSPE is 0.15M NaCl, 10mM NaH₂PO₄, and 1.25mM EDTA, pH 7.4) can be substituted for SSC (1xSSC is 0.15M NaCl and 15mM sodium citrate) in the hybridization and wash buffers; washes are performed for 15 minutes after hybridization is complete.

 $^{^{\}circ}T_{B}$ - T_{R} : The hybridization temperature for hybrids anticipated to be less than 50 base pairs in length should be 5-10 $^{\circ}$ C less than the melting temperature (T_{m}) of the hybrid, where T_{m} is determined according to the following equations. For hybrids less than 18 base pairs in length, T_{m} ($^{\circ}$ C) = 2(# of A + T bases) + 4(# of G + C bases). For hybrids between 18 and 49 base

pairs in length, $T_m(^{\circ}C) = 81.5 + 16.6(\log_{10}[Na^{+}]) + 0.41(\%G+C) - (600/N)$, where N is the number of bases in the hybrid, and [Na⁺] is the concentration of sodium ions in the hybridization buffer ([Na⁺] for 1xSSC = 0.165 M).

Additional examples of stringency conditions for polynucleotide hybridization are provided in Sambrook, J., E.F. Fritsch, and T. Maniatis, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, chapters 9 and 11, and *Current Protocols in Molecular Biology*, 1995, F.M. Ausubel et al., eds., John Wiley & Sons, Inc., sections 2.10 and 6.3-6.4, incorporated herein by reference.

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Preferably, each such hybridizing polynucleotide has a length that is at least 25%(more preferably at least 50%, and most preferably at least 75%) of the length of the polynucleotide of the present invention to which it hybridizes, and has at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% or 95% identity) with the polynucleotide of the present invention to which it hybridizes, where sequence identity is determined by comparing the sequences of the hybridizing polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps.

The isolated polynucleotide of the invention may contain sequences at its 5' and/or 3' end that are derived from linker, polylinker, or multiple cloning site sequences commonly found in vectors such as the pMT2 or pED expression vectors (see below). For example, sequences such as SEQ ID NO:2160, SEQ ID NO:2161, or SEQ ID NO:2162 may be found at the 5' end of an isolated polynucleotide of the invention, or the complement of any of these sequences may be found at its 3' end. Similarly, sequences such as SEQ ID NO:2163, SEQ ID NO:2164, or SEQ ID NO:2165 may be found at the 3' end of an isolated polynucleotide of the invention, or the complement of any of these sequences may be found at its 5' end. In addition, variants of these linker sequences may be present in isolated polynucleotides of the invention, which linker variants vary from SEQ ID NO:2160 through SEQ ID NO:2165 by the alteration, insertion, or deletion of one or more nucleotides. Therefore, a preferred embodiment of the invention comprises the nucleotide sequence of any of the isolated polynucleotides disclosed herein, beginning at nucleotide 25 and ending at nucleotide (N-25) of the SEQ ID NO for that polynucleotide, where N represents the total number of nucleotides in the sequence. As a specific example, a preferred embodiment of the invention comprises the nucleotide sequence of SEQ ID NO:1

from nucleotide 25 to nucleotide 180, where the total number of nucleotides (N) in SEQ ID NO:1 is 205, and N-25 equals 180. More preferably, a polynucleotide of the invention comprises the nucleotide sequence of any of the isolated polynucleotides disclosed herein, beginning at nucleotide 30 and ending at nucleotide (N-30) of the SEQ ID NO for that polynucleotide. Most preferably, a polynucleotide of the invention comprises the nucleotide sequence of any of the isolated polynucleotides disclosed herein, beginning at nucleotide 35 and ending at nucleotide (N-35) of the SEQ ID NO for that polynucleotide.

The isolated polynucleotide of the invention may be operably linked to an expression control sequence such as the pMT2 or pED expression vectors disclosed in Kaufman et al., Nucleic Acids Res. 19, 4485-4490 (1991), in order to produce the protein recombinantly. Many suitable expression control sequences are known in the art. General methods of expressing recombinant proteins are also known and are exemplified in R. Kaufman, Methods in Enzymology 185, 537-566 (1990). As defined herein "operably linked" means that the isolated polynucleotide of the invention and an expression control sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

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A number of types of cells may act as suitable host cells for expression of the protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from in vitro culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

Alternatively, it may be possible to produce the protein in lower eukaryotes such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include Saccharomyces cerevisiae, Schizosaccharomyces pombe, Kluyveromyces strains, Candida, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include Escherichia coli, Bacillus subtilis, Salmonella typhimurium, or any bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, e.g., Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art, as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting expressed protein may then be purified from such culture (i.e., from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA Sepharose®; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

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Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLabs (Beverly, MA), Pharmacia (Piscataway, NJ) and Invitrogen Corporation (Carlsbad, CA), respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from the Eastman Kodak Company (New Haven, CT).

Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, e.g., silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant

protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences, by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

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The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications of interest in the protein sequences may include the alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No. 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

USES AND BIOLOGICAL ACTIVITY

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

Research Uses and Utilities

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The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as porbes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtractout" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise anti-protein antibodies using DNA immunization techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to

identify polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction.

The proteins provided by the present invention can similarly be used in assay to determine biological activity, including in a panel of multiple proteins for high-5 throughput screening; to raise antibodies or to elicit another immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the protein (or its receptor) in biological fluids; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a disease state); and, of course, to isolate correlative receptors or ligands. Where the protein binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the protein can be used to identify the other protein with which binding occurs or to identify inhibitors of the binding interaction. Proteins involved in these binding interactions can also be used to screen for peptide or small molecule inhibitors or agonists of the binding interaction.

Any or all of these research utilities are capable of being developed into reagent grade or kit format for commercialization as research products.

Methods for performing the uses listed above are well known to those skilled in the art. References disclosing such methods include without limitation "Molecular 20 Cloning: A Laboratory Manual", 2d ed., Cold Spring Harbor Laboratory Press, Sambrook, J., E.F. Fritsch and T. Maniatis eds., 1989, and "Methods in Enzymology: Guide to Molecular Cloning Techniques", Academic Press, Berger, S.L. and A.R. Kimmel eds., 1987.

Nutritional Uses

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Polynucleotides and proteins of the present invention can also be used as nutritional sources or supplements. Such uses include without limitation use as a protein or amino acid supplement, use as a carbon source, use as a nitrogen source and use as a source of carbohydrate. In such cases the protein or polynucleotide of the invention can be added to the feed of a particular organism or can be administered as a separate solid or liquid preparation, such as in the form of powder, pills, solutions, suspensions or capsules. In the case of microorganisms, the protein or polynucleotide of the invention can be added to the medium in or on which the microorganism is cultured.

Cytokine and Cell Proliferation/Differentiation Activity

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations.

5 Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D, DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for T-cell or thymocyte proliferation include without limitation those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Bertagnolli et al., J. Immunol. 145:1706-1712, 1990; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Bertagnolli, et al., J. Immunol. 149:3778-3783, 1992; Bowman et al., J. Immunol. 152: 1756-1761, 1994.

Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon γ, Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

Assays for proliferation and differentiation of hematopoietic and lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6-3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., J. Exp. Med. 173:1205-1211, 1991; Moreau et al., Nature 336:690-692, 1988; Greenberger et al., Proc.

Natl. Acad. Sci. U.S.A. 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In Current Protocols in Immunology. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F., Giannotti, J., Clark, S.C. and Turner, K. J. In Current Protocols in Immunology. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 - Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In Current Protocols in Immunology. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto. 1991.

Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immun. 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

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Immune Stimulating or Suppressing Activity

A protein of the present invention may also exhibit immune stimulating or immune suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune disorders. More specifically, infectious diseases causes by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, Leishmania spp., malaria spp. and various fungal infections such as candidiasis. Of course, in this

regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, i.e., in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitis, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also to be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

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Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as, for example, B7)), e.g., preventing high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having

B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (e.g., B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal. Blocking B lymphocyte antigen function in this matter prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant. Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-blocking reagents may avoid the necessity of repeated administration of these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

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The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins in vivo as described in Lenschow et al., Science 257:789-792 (1992) and Turka et al., Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function in vivo on the development of that disease.

Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor: ligand interactions of B lymphocyte antigens can be used to inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number

of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythmatosis in MRL/lpr/lpr mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

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Alternatively, anti-viral immune responses may be enhanced in an infected patient by removing T cells from the patient, costimulating the T cells in vitro with viral antigen-pulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate, T cells in vivo.

In another application, up regulation or enhancement of antigen function (preferably B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (e.g., sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor cells obtained from a patient can be transfected ex vivo with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-

like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection in vivo.

The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected turnor cells. In addition, turnor cells which lack MHC class I or MHC class II molecules, or which fail to reexpress sufficient amounts of MHC class I or MHC class II molecules, can be transfected with nucleic acid encoding all or a portion 10 of (e.g., a cytoplasmic-domain truncated portion) of an MHC class I α chain protein and β_2 microglobulin protein or an MHC class II α chain protein and an MHC class II β chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I or class II MHC in conjunction with a peptide having the activity of a B lymphocyte antigen (e.g., B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J.

Immunol. 137:3494-3500, 1986; Bowmanet al., J. Virology 61:1992-1998; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Brown et al., J. Immunol. 153:3079-3092, 1994.

Assays for T-cell-dependent immunoglobulin responses and isotype switching (which will identify, among others, proteins that modulate T-cell dependent antibody responses and that affect Th1/Th2 profiles) include, without limitation, those described in: Maliszewski, J. Immunol. 144:3028-3033, 1990; and Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick, M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John Wiley and Sons, Toronto. 1994.

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Mixed lymphocyte reaction (MLR) assays (which will identify, among others, proteins that generate predominantly Th1 and CTL responses) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins expressed by dendritic cells that activate naive T-cells) include, without limitation, those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., Journal of Experimental Medicine 173:549-559, 1991; Macatonia et al., Journal of Immunology 154:5071-5079, 1995; Porgador et al., Journal of Experimental Medicine 182:255-260, 1995; Nair et al., Journal of Virology 67:4062-4069, 1993; Huang et al., Science 264:961-965, 1994; Macatonia et al., Journal of Experimental Medicine 169:1255-1264, 1989; Bhardwaj et al., Journal of Clinical Investigation 94:797-807, 1994; and Inaba et al., Journal of Experimental Medicine 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others, proteins that prevent apoptosis after superantigen induction and proteins that regulate lymphocyte homeostasis) include, without limitation, those described in: Darzynkiewicz et al., Cytometry 13:795-808, 1992; Gorczyca et al., Leukemia 7:659-670, 1993; Gorczyca et al., Cancer Research 53:1945-1951, 1993; Itoh et al., Cell 66:233-243, 1991; Zacharchuk, Journal of Immunology 145:4037-4045, 1990; Zamai et

al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

Hematopoiesis Regulating Activity

A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for example, in conjunction with chemotherapy to prevent or treat consequent myelo-suppression; 20 in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned 25 hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post irradiation/chemotherapy, either in-vivo or ex-vivo (i.e., in conjunction with bone marrow transplantation or with peripheral 30 progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, 5 without limitation, those described in: Johansson et al. Cellular Biology 15:141-151, 1995; Keller et al., Molecular and Cellular Biology 13:473-486, 1993; McClanahan et al., Blood 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, 10 those described in: Methylcellulose colony forming assays, Freshney, M.G. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., Proc. Natl. Acad. Sci. USA 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In Culture of Hematopoietic Cells. R.L. Freshney, et al. 15 eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., Experimental Hematology 22:353-359, 1994; Cobblestone area forming cell assay, Ploemacher, R.E. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc.., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In Culture of Hematopoietic Cells. R.L. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland, H.J. In Culture of Hematopoietic Cells. R.L. Freshney, et al. eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

Tissue Growth Activity

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A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and ulcers.

A protein of the present invention, which induces cartilage and/or bone growth in circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. De novo bone formation induced by an

osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an 5 environment to attract bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application 15 in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-like tissue inducing protein may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to tendon or ligament tissue. De novo tendon/ligament-like tissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon-25 or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or progenitors ex vivo for return in vivo to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

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The protein of the present invention may also be useful for proliferation of neural cells and for regeneration of nerve and brain tissue, i.e. for the treatment of central and peripheral nervous system diseases and neuropathies, as well as

mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized neuropathies, and central nervous 5 system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

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It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium).

Assays for wound healing activity include, without limitation, those described in: Winter, Epidermal Wound Healing, pps. 71-112 (Maibach, HI and Rovee, DT,

eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

Activin/Inhibin Activity

5 A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins and are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention, alone or in heterodimers with a member of the inhibin α family. 10 may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin-β group, may be useful as a fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986; Vale et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

Chemotactic/Chemokinetic Activity

A protein of the present invention may have chemotactic or chemokinetic activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide particular advantages in treatment of wounds and

other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

A protein or peptide has chemotactic activity for a particular cell population if it can stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce the adhesion of one cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al. J. Clin. Invest. 95:1370-1376, 1995; Lind et al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al. J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

Hemostatic and Thrombolytic Activity

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A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A protein of the invention may also be useful for dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

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Receptor/Ligand Activity

التؤخير بال معتبيات بين البريق

A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be 20 measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those described in:Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med. 169:149-160 1989; Stoltenborg et al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

30 Anti-Inflammatory Activity

Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting

chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusion injury, endotoxin lethality, arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

Tumor Inhibition Activity

In addition to the activities described above for immunological treatment or prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis), by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

25 Other Activities

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A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting (suppressing or enhancing) bodily characteristics, including, without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or caricadic cycles or rhythms; effecting the fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination

of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for example, the ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

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A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable 5 carrier. Such a composition may also contain (in addition to protein and a carrier) diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin, stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other agents which either enhance the activity of the protein or compliment its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. Tlymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The

antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that can directly signal T cells. Alternatively antibodies able to bind surface immunolgobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be combined with the pharmaceutical composition of the invention.

The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of which are incorporated herein by reference.

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As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment, healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines, lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on

the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous administration to the patient is preferred.

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When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention.

When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers, antioxidants, or other additives known to those of skill in the art.

The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various 10 pharmaceutical compositions used to practice the method of the present invention should contain about 0.01 µg to about 100 mg (preferably about 0.1ng to about 10 mg, more preferably about 0.1 µg to about 1 mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate 20 duration of intravenous therapy using the pharmaceutical composition of the present 计对应数据 野野 人名斯拉里 医结合物的复数 美克雷

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Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem.Soc. 85, 2149-2154 (1963); J.L. Krstenansky, et al., FEBS Lett. 211, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal

antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systematically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

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The choice of matrix material is based on biocompatibility, biodegradability,

mechanical properties, cosmetic appearance and interface properties. The particular
application of the compositions will define the appropriate formulation. Potential
matrices for the compositions may be biodegradable and chemically defined calcium
sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and
polyanhydrides. Other potential materials are biodegradable and biologically welldefined, such as bone or dermal collagen. Further matrices are comprised of pure
proteins or extracellular matrix components. Other potential matrices are
nonbiodegradable and chemically defined, such as sintered hydroxapatite, bioglass,
aluminates, or other ceramics. Matrices may be comprised of combinations of any of
the above mentioned types of material, such as polylactic acid and hydroxyapatite or
collagen and tricalciumphosphate. The bioceramics may be altered in composition,
such as in calcium-aluminate-phosphate and processing to alter pore size, particle
size, particle shape, and biodegradability.

Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800

microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses (including hydroxyalkylcelluloses), including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropylmethylcellulose, and carboxymethylcellulose, the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate, poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorbtion of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

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In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- α and TGF- β), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I),

to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

Polynucleotides of the present invention can also be used for gene therapy. Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

Cells may also be cultured *ex vivo* in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced *in vivo* for therapeutic purposes.

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Patent and literature references cited herein are incorporated by reference as if fully set forth.

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TABLE 3 to gradient of the symmetric light of the control of the c

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<u>Sel.</u>	Species	<u>Stage</u>	<u>Tissue</u>	Cell Type	Treat	ment
PP	Human	Adult	Blood	LymphoblasticLeukemial	MOLT-4	None
PQ	Human	Adult	Turnor	ColorectalAdenocarcinon	aSW480	None
PR	Human	Fetal	Kidney	N/A	None	
PS	Human	Fetal	Kidney	N/A	None	
PT	Human	Adult	Blood	LymphoblasticLeukemiaN	AOLT-4	None
PU	Human	Adult	Blood	Promyelocytic Leukemia	HL-60	None
PV	Human	Adult	Brain	Cerebellum	None	
PW	Human	Adult	Brain	Cerebellum	None	x 14 - 1
PX	Human	Adult	Brain	Cerebellum	None	
PY	Human	Adult	Brain	Cerebellum	None	
PZ	Human	Adult	Bone Marrov	v N/A	None	We the state of
Q	Mouse	Adult	Bone Marrov	v N/A	5 fluor	o-uracil
QA	Human	Adult	Cartilage	Chondrosarcoma HTB-94	line	None
QB	Human	Adult	Bladder	Carcinoma 5637	None	5
QC	Human	Adult	Neural	Neuroepithelioma HTB-10	$\mathbf{line}^{\dot{ au}}$	None
QD	Human	Petal	Embryo	FHs173 We HTB-158	None	er to the second
QE	Human	Fetal	Liver	N/A	None	أجير بالجي
QF	Human	Adult	Bladder	Carcinoma 5637	None	e de la contraction de la cont
QG	Human	Adult	Neural	Neuroepithelioma HTB-10	line	None
QH	Human	Fetal	Embryo	FHs173 We HTB-158	None	ar sy sa st
QL	Human	Fetal	Heart	18 weeks gestation	None	
QM	Human	Adult	Blood	Histiocytic lymphoma U93	7 None	
QN	Human	Adult	Cartilage	Chondrosarcoma HTB-94	ine	None
QO	Human	Adult	Brain	Corpus Callosum	None	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
QR	Human	Adult	Brain	Subthalamic Nucleus	None	
QS	Human	Fetal	Whole Embry	o N/A	None	•
QT	Human	Fetal	Kidney	N/A	None	
QU	Human	Adult	Blood	ChronicMyelogenousLeuke	miaK562	2 None
QV	Human	Adult	Testis	Embryonal Carcinoma NT2	DI RA	for 23 days
QX	Human	Adult	Bone	Ewing's Sarcoma RD-ES	None	•
QY	Human	Adult	Blood	Promyelocytic Leukemia H	L-60	None
QZ	Human	Adult	Brain	Caudate Nucleus	None	• • •
RA	Human	Adult	Brain	Substantia Nigra	None	
RB	Human	Adult	Kidney	293 embryonal carcinoma li	ne	None

RC	Human	Adult	Kidney	293 embryonal carcinoma	line	None
RD	Human	Adult	Kidney	293 embryonal carcinoma	line	None
RE	Human	Adult	Brain	Amygdala	None	
RF	Human	Adult	Bone Marrow	N/A	None	
RG	Human	Adult	Blood	Promyelocytic Leukemia H	IL-60	None
RH	Human	Adult	Blood	Promyelocytic Leukemia F	IL-60	None
RI	Human	Adult	Brain	Subthalamic Nucleus	None	
RJ	Human	Adult	Neural	Neuroepithelioma HTB-10	line	None
RK	Human	Adult	Tumor	ColorectalAdenocarcinoma	SW480	None
RL	Human	Fetal	Kidney	293 cell line	None	
RM	Human	N/A	Brain	Neuroectodermal Tumor C	RL-2060	None
RN	Human	Adult	Blood	LymphoblasticLeukemiaM	OLT-4	None
RP	Human	Adult	Brain	Thalamus	None	
RQ	Human	Fetal	Kidney	N/A	None	
RR	Human	Fetal	Kidney	N/A	None	
RS	Human	Adult	Tumor	ColorectalAdenocarcinoma	SW480	None
RT	Human	N/A	Brain	Neuroectodermal Tumor C	RL-2060	None
RU	Human	Adult	Adrenal corte	Carcinoma SW-13	None	
RV	Human	Adult	Brain	Cerebellum	None	
RW	Human	N/A	Brain	Neuroectodermal Tumor C	RL-2060	None
RX	Human	N/A	Nasal Epithel	squamous cell carcinoma C	CL-30	None
RY	Human	Adult	Ovary	Ovarian Adenocarcinoma I	ITB-161	None
RZ	Human	Adult	Brain	Cerebellum	None	
S	Human	Actult	Neural	Glioblastoma line TG-1	N/A	
SA	Human	Fetal	Heart	18 weeks gestation	None	
SB	Human	Fetal	Whole Embryo	N/A	None	
SC	Human	Fetal	Kidney	293 cell line	None	
SD	Human	Fetal	Kidney	N/A	None	
SE	Human	Fetal	Kidney	N/A	None	
SF	Human	Adult	Bladder	Carcinoma 5637	None	
SG	Human	Fetal	Heart	18 weeks gestation	None	
T	Mouse	Fetal	Brain	N/A	None	
V	Mouse	Fetal	Brain	N/A	None	
WA	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None	
WC	Xenopus	11-12	Embryo	Fetal Vent. Mesoderm/Ector	derm 1	N/A
WF	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None	
WG	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None	

Z	Rat	Fetal	Pancreas	N/A	None	
WL	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None	
WK	Xenopus	11-12	Embryo	Fetal Vent. Mesoderm/Ecto	derm	N/A
wj	Xenopus	11-12	Embryo	Fetal Vent. Mesoderm/Ecto	ı/Ectoderm	
WI	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None	
WH	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None .	

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Table 3 Cell Type and Treatment Key:

RA: retinoic acid

What is claimed is:

 An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID

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or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

医亚氯酚酚医氯酚 自然的 网络巴西斯巴西 医外侧部

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31. SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157,

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.

6. An isolated protein encoded by an isolated polynucleotide of claim 2.

- 7. An isolated protein encoded by an isolated polynucleotide of claim 3.
- 8. An isolated protein encoded by an isolated polynucleotide of claim 4.

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 gtccgtccaa agggccagtt tgatttggga agctcgag
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                                in de regular de la region de la completa de la region de la completa de la region de la region de la region d
Notacion de la region de la regi
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gatagttttg tttcaggttt tttacttgtt ttctcttttg tctttggaag gtctgtttgt 540 /
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 ggaaatctaa gtctagttga tacaaggcaa cacagttcag cacattcaaa tcaagataaa 240
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                                                                                                                                                                                                                                                                                                                                                                 42 - 12 - 12 - 12
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<210> 41
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<213> Homo sapiens ( ) programme to a second a speciment of the programme and programme to the second of the secon
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Kirili kiril
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acgtettaga geacaggete caegeattee atggeceeea ettgetatea gtggeeggge 240
                       ് പുരുപ്പെട്ടു ക്രാൻ ആവം വിധാനം പ്രവാധ വിവരം പ്രവാധ വിധാനം വരു വിവര്യ വിശ്യാസ് വിധാനം വിധാനം വിധാനം വിധാനം വിധ
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tttgtttccg catatattca tttttaatgc attctgtaac ttttctcgag
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<210> 51
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<211> 417
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aaactccccc acaccagete tgtaataggg gtgagtgttg gacataagca gggagttgac 180
aagaagecaa gactaggetg ggeacagtgg eteaegeetg taatteeage eetegag
<210> 55
<211> 220
<212> DNA
<213> Homo sapiens
<400> 55
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ctgttttttt ttaaataaag caatttgttc taataattat ttcctaatca tcttaaaata 120
cgctgtcatt aacggcagag aaagctcttt atttcctttt gaattttaat actgggtaga 180
aatataattt acaatgaaag tcagcaggaa agaactcgag
<210> 56
<211> 247
<212> DNA
<213> Homo sapiens
<400> 56
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agaaataatt totgaaatga accagatata tgaggataat gataaagatg cacatgtoca 120
agaaagetat acaaaagate tegattetaa agtaaataaa tetaaacaaa aacttgaatg 180
ccaagacatt atcaataaac actatatgga agtcaacagt aatgaasagg aaagttgtaa 240
tctcgag
                                                                  247
<210> 57
<211> 229
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<212> DNA

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      gagtteeaag atettgttgt actgtttett ateaatetgg ggaecetget cagtggtggg 180
      gtcaaaggga ctccccacta cgcgcctctt ggcccgctcc acactcgag
       <210> 58
      <211> 146
       <212> DNA
       <213> Homo sapiens
     <400> 58
     gaattegegg eegegtegae tgagggagag attggteagt etgtteaaaa ttacagatag 60
     gaagaagagt aagttetggt gttetettge acagtagggt aactatggtt aacaatattg 120
     catatttcaa aacagctggc ctcgag
                                                                                                                                                                                                                                                                                                                                         146
    <210> 59
    <211> 139.
    <212> DNA
    <213> Homo sapiens
    <400> 59
    gaattegegg cegegtegac cetgeacett gtetgtetga caaacacett ettatttgat 60
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  aaataaccac ttcctcgag 1

<210> 60

<211> 325

<212> DNA

<213> Homo sapiens
                                                                                                                                                                                                                                                              and the second s
  <400> 60
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                                                                                                                                                                                                                                                                                                                                                            egetecagag teagtagtea atgaatatat gaccaaatat caccaggact gttactcaat 120
  gtgtgeegag ecettgeeca tgetgggete eegtgtatet ggacaetgta aegtgtgetg 180
tgtttgetee eetteecett eettetttge eetttaettg tetttetggg gtttttetgt 240
  ttgggtttgg tttggttttt attteteett ttgtgtteea aacatgaggt tetetetaet 300
  ggtcctctta accatggtgc tcgag
                                                                          itiggtige tegag

The consequence of the constitution of the consequence of the consequenc
  <210> 61
  <211> 241
                                                              and the second of the contract of the contract
 <212> DNA
 <213> Homo sapiens
 <400> 61
 gaattegegg eegegtegae tettatteet tettgaaaat titaagtgit atggttitat 60
 atagttcagt tetttgagat ttttgaaaag agtattttca gtaataaaeg tgccatetet 120
 atctcttaaa catttattac aacaattgtt ttaaaataga aaaaataaaa tgcttctatt 180
ttaccttttt ttcatttcag aagcattatt ctgtttatta acagtgtccc atctcctcga 240
                                                                                                                                                                                                                                                                                                                               241
                                                                         A STATE OF THE STA
<210> 62
<211> 392
<212> DNA
<213> Homo sapiens
gaaltegegg cegegtegae geaegtggea etggaggage ggegtittge acceecagge 60
ttcagggaag ttctcaatag aaaacccatt agttgtctca tatgactggt attaactctg 120
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acttaaaaaa aaaatcaagc cagaaacagt gtgttgagca agaaaggaaa aaagattcct 180
 tattaaaagt tcaaacataa acagaagget caggacetee ttgactacet etettgecae 240
gtggcccagg agaaaccatg gctggcagtt taacagccac cctcctgctt ctgctctgtg 300
cattttgtgg atgcacatcc acgtttttct tttcttttga gacagggtct cactctgttg 360
cccaggetgg aatgcaatgg egegateteg ag
<210> 63
<211> 293
<212> DNA
<213> Homo sapiens
<400> 63
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taaactacct acactgccaa aaaactatag caacacctca aaaatattta gtgaagaaaa 180
ttetgatgaa attattaage tettgggaga egteaggett aatatteteg teettggagg 240
aagetetgga tttattgage tttatgetta tggaatgttt aaaattgete gag
<210> 64
<211> 449
<212> DNA
<213> Homo sapiens
<400> 64
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coctaceate acceaetgag tetaggeaca geotetecat cocteetgte tecagecete 180
cggagcagaa agtgggtett tatcgaagac aaactgaact tcaagacaaa agtgaatttt 240
cagatgtgga cangetaget tttaaggata atgaggagtt tgaatcatet tttgaatetg 300
cagggaacat gccaaggcag ttggaaatgg gcgggctttc tcctgccggg gatatgtctc 360
atgtggaege tgetgeaget getgtgeeee teteatatea geacceaagt gtagateaga 420
aacaaattga agaacaaaag gaactcgag
<210> 65
<211> 247
<212> DNA
<213> Homo sapiens
<400> 65
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ggcaaaggaa gatcacagcc atcacaaagc aatctaggca gaaagtgata ggaaaaaaag 120
gagaaactat teatteteaa etattgetgg tatacacaaa eetetgaaaa tagecaatta 180
gtgttagatg ttetateagg cgtggggaat ggggatggtt acaaaattea teeteecagt 240
tetegag
                                                                  247
<210> 66
<211> 227
<212> DNA
<213> Homo sapiens
<400> 66
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tttgtttget tatttttaaa ttaactgttt tgagetttga atacttaagg etttagaggg 120
agaacccaat titicaattat gitggctitt tataaagcti gagitatgia agattiaaat 180
assaugttige taccaagatg attgeettat tgaatagate actegag
<210> 67
<211> 384
<212> DNA
<213> Homo sapiens
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gaattegegg cegegtegae tgacatteet gttggagaet tacateeagg ggaacagetg 60
 gaaaaaatgt tgtatgttcg ctgtggaaca gggggttcca gaatgtttct tgtatatgtt 120
  tettacetga taaatacaac egitgaagaa aaagaaattg titgeaagtg teacaaggat 180
 gaaactgtaa caattgaaac agtotttoca tttgatgttg cggttaaatt tgtttotacc 240
 aagtttgage acetggaaag ggtttatget gacateeect ttetgttgat gaeggaeete 300
 ttaagtgeet caecetggge ceteactatt gittecagtg agetecacet tgetecatec 360
 atgaccacag tggaccagct cgag-
 <210> 68
 <211> 302
 <212> DNA
 <213> Homo sapiens
 <400> 68
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 eteteteett geagtgaaga eesteesete eagtaasett tittiteetgi gaaaaseset 120
 caacccettt teaggacete teteaaccce atetteccat ttgtgtecca ceagteceet 180
 coccaacety ccaatatttc aataacccca cgcccaccag ttgctgccgc ttttctgccc 240
 caatgeacat accetggaac etggtttete teettegttg gggeecaace ecceteeteg 300
 <210> 69
 <211> 184
 <212> DNA
 <213> Homo sapiens
                                  tera in Tradit and a care in the
gaattegegg cegegtegae gatacaatet geaaatgata aaaatttega egatgaagat 60
tetgtggatg gtaacagace tteetetget agttetacat catecaagge tecaecaagt 120
totoggagaa acgttggaat gggaaccacc egceggettg gttcatccac cettggacet 180
cgag
                                                                                                                                        184
<210> 70
<211> 262
<212> DNA
<213> Homo sapiens
                                            and the second s
gaattegegg cegegtegae caaaaacaaa acaaaacaaa aaaactttge ccaettettt 60
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ttagtattat ttgtgtatet tttaetttgt tagaatacat acttatette taatgaaatt 180
attocagase actitassag agtoattias attgcctgtt agtatagita tassattgac 240
agagcagtgg caaaaactcg ag
                                                                                                                                       262 ...
<210> 71
<211> 166
<212> DNA
<213> Homo sapiens
<400> 71
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catgatgatg gtgaaactgc agcaatcatt ttatgcaatg tctgtggaaa tttatgtaca 120
gactgtgaca gattccttca ccttcatcga agaaccacaa ctcgag 166
                                                                                                           the company of the company of the
<210> 72
<211> 370
<212> DNA
<213> Homo sapiens
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<400> 72
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 ctatattatc tgatttaaga aataggagta ataccactta ccttacaget teetgggtca 180
 eteteteatt gagttaacca atagatettt gaatteetaa eettitteet atecateett 240
 ecettiticas tittetitte etatgetagt teatgeette thacatetet tigtigaggit 300
 titiccatait cicgiaacii gictcettgc gictactett cagictgict tecttaccac 360
 cagactegag
 <210> 73
 <211> 287
 <212> DNA
 <213> Homo sapiens
 <400> 73
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 agaaacctgg gaggagactc aagactgttc tettcagtca getteccatg cetattttat 180
 atoccactag titattitat gagotatgic toaaaatoat actottotot etitgtotot 240
 cttacttgat cattggtcag gcctgtacct tcagccaccc tctcgag
 <210> 74
<211> 212
<212> DNA
<213> Homo sapiens
                                                έį.
<400> 74
gaattegegg cegegtegae ceaatgagga aggeaaagaa aategagaec gggacagaga 60
ctatagtcgg cgacgtggtg ggccaccaag acgggggaga ggtgccagcc gtggacgaga 120
gtttcgaggt caggaaaatg gattggatgg caccaagagt ggagggcctt ctggaagagg 180
aacagaaaga ggcagaagga taccggctcg ag
                                                                 212
<210> 75
<211> 314
<212> DNA
<213> Homo sapiens
<400> 75
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gactagttat aaattgacaa gttgtcggga aattttgcag caataaaggg ggcaagtgga 120
aggeagagea etttetagar ettgaettit eeatggeeca tgtaagatea etaaaetgtt 180
catttatttt togacagtta gcacctgorg ttgatatata ctaaatggog ggaacatgtt 240
ttttttgttg tttgtttgtt ttgttttgtt ttgtttttcg agacggagtc tcgctctgtc 300
cccaagetet egag
<210> 76
<211> 268
<212> DNA
<213> Homo sapiens
<400> 76
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aagaggaaaa actatccaga atggcaggga attgtttgag tcttcccttt gtggagacct 120
gaggaaaaaa agcaacaagc atgactcatc aagatctgaa gagcgcaagt cacacaaaat 240
ccccaaatta gaaccagagg acctcgag
<210> 77
<211> 295
<212> DNA
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```
<213> Homo sapiens
                                    The configuration was by the foreign property of
                                          and the second of the second o
  <400> 77
  gaattegegg eegegtegae aattitaagt taagteeeat algaaggete aaaagagegg 60
  taaagaacaa cagettgaca ttatgaacaa geagtaecaa eaaettgaaa gtegtttgga 120
  tgagatactt totagaattg otaaggaaac ggaagagatt aaggacottg aagaacagot 180
  tactgaagge cagatageag caaatgaage cetgaagaag gatttagaag gtgttateag 240
  tgggttgcaa gaatacctgg ggaccattaa aggccaggca gctcaggccc tcgag 295
  <210> 78
  <211> 148
  <212> DNA
  <213> Homo sapiens
  <400> 78
  gaattegegg eegegtegac acatactttg cattttecac tgttactttg ataccatttt 60
  tagttgegaa acaegtggea tgttetegga aatgaatage ttteaagata gtggagagat 120
 tectaaegtt gteaaggetg agetegag 148

<210> 79
 <211> 224
  <212> DNA
  <213> Homo sapiens
 <400> 79
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 gtgggtgetg tageggggga ggeateaett catecegtte caggggaaac gteteeceet 180
ccagactgtt gtcatcatca ttetectett cetetactet cgag 224

<210> 80

<211> 288

<212> DNA

<213> Homo sapiens
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aagagaagac aaagaacccc caaaatatta gaaaagatta taaaagacat tataaggttg 120
gaattettae tetttgaatt ceatattigt titattatti actaatgite taatattaag 180
ttcatgataa gtcacacaca tatgttttct ccacatett tccacetate agtttttcta 240
acatattatt gttttaaaat tottaattt attacagcaa tootogag
                                                                                                                                                                                                  288
<210> 81
<211> 251
                                            Compared to the control of the co
<212> DNA
<213> Homo sapiens
gaattegegg eegegtegae tttgaaggtt gtttgttgtt gttgattett agaggeagat 60
atotgactac gttgtgtita tactttaget atatgaatgt ttacctattg aaaafactgt 120
tttattaaaa attactitgt teettatace ttaggagata aatgtacatt ttaaaagtgt 180
tecteagtea ggtgaggtgg ettatgeetg taagtteaac acttggggag geegaaceag 240
gaggactcga g
                                                                                                                                                                                                 251
<210> 82
<211> 498
<212> DNA
<213> Homo sapiens
```

. .<400> 82

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gaattegegg cegegtegae gtecatgget gaggagaaga ggaagegaga ggaagaggag 60
 aaggcacagc aggtggccag gaggcaacag gagcgaaagg ctgtgacaaa gaggagccct 120
 gaggetecac agecagtgat agetatggaa gagecageag taceggeece actgeecaag 180
 aaaateteet eagaggeetg geeteeagtt gggaeteete cateateaga gtetgageet 240
gtgagaacca geagggaaca eccagtgeee ttgetgeeca ttaggeagac teteeeggag 300
gacaatgagg agcccccagc tetgccccct aggactetgg aaggcctcca ggtggaggaa 360
gagecagtgt acgaagcaga geetgageet gagecegage etgagecega geetgagaat 420
 gactatgagg acgttgagga gatggacagg catgagcagg aggatgaacc agagggggac 480
tatgaggagg tgctcgag
<210> 83
<211> 277
<212> DNA
<213> Homo sapiens
<400> 83
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gaattcagta cagacttete agggegettt gaacacaaat ccaaccacte tacgcagece 180
tateteccae tgteccetee acaagettea ttetttatta agatggggae tatetggtat 240
geagatagee ageeacatet teceetetge cetegag
<210> 84
<211> 526
<212> DNA
<213> Homo sapiens
<400> 84
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ctgggtgttt ttaacgagag tttgaacaaa gactcagaaa tggtttttaa aataacagtc 120
ccatgtggcc cacatagaaa atattgggat attttaaggt gtggattcac ttttccatat 180
ttaaacactt gtttctactt ggtgaaatac acaggtgaca agtcaacttc aggaataatg 240
gttttttaa gaagatggga gttgggaatt tcttatattt tcctctcact tcttaaaacc 300
acctttgtgc ccctgcttta cattaggaaa aatggaaagg tgattaaaca cggccgttag 360
gagectaasa totaggtesg agtecegtat gaaagaaate agataagttg agagagggeg 420
tgtgcaggtt ggaaatggtg gcgtccatct ctgctggggc gtcgatgcca cctggctgga 480
caggtggage ctggaaggta gggaggeteg gaacatgaag ctegag
                                                                  526
<210> 85
<211> 307
<212> DNA
<213> Homo sapiens
<400> 85
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eggteteege aegttegegt ceatettgtt tattteeage gtttggeeeg tgggagegat 180
gagegeacct gttcageccc tgetttcagt tetttcaggg agttctcacg tggtcttcag 240
aggttcccae acgctgcttc ccacagcagc tgcaccattg tacattccaa cagcaacaga 300
getegag
                                                                  307
<210> 85
<211> 194
<212> DNA
<213> Homo sapiens
<400> 86
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taaatttgac tcacacatat atcatcaact cattttcaag agatttgtcg tcatcaattg 120
attttcaaca gagacacgag agctagtcca tgaggaaagg aaagcatata acaaatttgc 180
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194
  tgggactact cgag
  <210> 87
  <211> 223
  <212> DNA
                                                              <213> Homo sapiens
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  tatatttcag gttatttgag cacagtgaaa gcagagtact atggttgtcc aacacaggcc 120
  totcagatac aaggggaaca caattacata ttgggctaga ttttgcccag ttcaaaatag 180
                                                                                                                                         223
  tatttgttat caacttactt tgttacttgt atcaatcete gag
  <210> 88
  <211> 265
  <212> DNA
  <213> Homo sapiens
  gaattegegg eegegtegae gacaacatea aaagcaactg atgactetgg aaaacaaget 60 🐇
  aaaggotgag atggatgaac ategeotcag attagacaaa gatottgaaa ctcagogtaa 120
  caattttgct gcagaaatgg agaaacttat caagaaacac caggctgcca tggagaaaga 180
  ggctaaagtg atgtccaatg aagagaaaaa atttcagcaa catattcagg cccaacagaa 240
 gaaagaactg aatagttttc tcgag
                                                                             .
 <210> 89
 <211> 176
 <212> DNA
 <213> Homo sapiens
                                                                                                   and the first of
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 caatagcaga gtttattttt gtttttaatg gcaaggcttc tagagtcaat gattgtatga 120
 gtttgctact ctggctgtgc ttacagcttc atccaagtac aaaggaagaa ctcgag 176
 <210> 90
 <211> 196
 <212> DNA
 <213> Homo sapiens
                                  and the second s
 gaattegegg cegegtegae ggtgtgttat tgtttttatt ggetgtaeet ggtagaattg 60
 anamatcago attitutatig tagoctacta attituagiga aniattituti tagamatata 120 (100 100)
 azatetggaa etttecatea ttatgeetee ecaaaataat agaggaettt acacacagat 180
 aacacctgcc ctcgag
<210> 91
 <211> 348
 <212> DNA
 <213> Homo sapiens
 <400> 91
 gaattegegg cegegtegae gggggtggga aggagtgggt ggagetggee teceteagaa 60
 teaagetggg etcacttgtg attraggagg tatgaagtgg ggaatcagte tttgtetace 120
 ttetgttee tgeaccaga cetectecae tttettaggg taagaaatge etttgatagg 180
 ggtaaageet ttettteeag agtttgagat cagagaette aatatgeaaa gtettggggt 240
atgetgacag atcagcacae gtgettttta tatttaaata attetcacaa cetatgtgge 300
ttgtcaggaa tgaagaatct aaagcttatt gtgctagggg cgctcgag 348 <210> 92
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<211> 350
 <212> DNA
 <213> Homo sapiens
 <400> 92
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 tacttttaag agcaaagttt gcttetttac ccaggagcat tgtcagtcag ggaacaactt 180
 adaccaagit cottgagaac acattotaaa titttiagaa cagcatotta ataaacaaaa 240
 acaacactca cgtttcagat tttatatttt tgtttcccaa aggatttata tcactgtatt 300
 tccaagtcat tgtcatgtta atgtctttca aatcaacatc tctgctcgag
 <210> 93
 <211> 286
 <212> DNA
 <213> Homo sapiens
 <400> 93
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 gagttgtgta gttgcgacag agaccatatg gaccaccagg cctaaaatat ttactgtctg 120
 actetttaca gaaaaagttt atetggeete tagtetaace tateaatttt aanaaaacag 180
 ctttttggag aaagaattca catactgtgc aattcaccca tttatataca attcaatggg 240
 ttttagtata ttcacagaga tgtgcaacca ccaccccagt ctcgag
 <210> 94
<211> 140
 <212> DNA
<213> Homo sapiens
<400> 94
gaattegegg cegegtegac geatgageea ceatgeetgg cecetteet teatetetee 60
taattttttc gacattctcc tacccatttt ctcctttcct gggccttcaa tttgtgccca 120
cctccacccc caccctcgag
                                                                   140
<210> 95
<211> 176
<212> DNA
<213> Homo sapiens
<400> 95
gaattegegg cegegtegae egagtattit actitattet titaagaaac tgagteatti 60
greetgttgt gtttcccctt atctggattt tgtaatcata tcctggaatg tggtttcaga 120
ggtgtctctg tcttttgtat ttcatgtcag tttatactcc agtcgataag ctcgag
<210> 96
<211> 601
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (191)
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tggaggagga accggctgta atcatgaatt agaaatgatc agacaaaagc ttcaatgtgt 120
agetteaaaa etacaggtte taccecagaa ageetetgag agactacagt ttgaaacage 180
agatgatgaa natttcattt gggttcagga aaatattgat gaaattattt tacaactaca 240
gaaattaact ggccagcaag gtgaagagce cagettggtg teeccaagta ettettgtgg 300
ctcattgact gaaagactac tgagacaaaa tgctgagctg acagggcata tcagtcaact 360
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 gtatcgacag acaggagetg gtagagataa ttettecagg tttteattga atggtggtge 480
 caacattgaa gccatcattg cetetgaaaa agaagtatgg aacagagaaa aattgactet 540
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                      the state of the state of the state of the
<211> 351
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catatgtetg actgggttcc agtttettgg gaatgttggt eccettgtte aggettgeat 180
attitaaact aaaaattica gictatigit titagtaact toattiatag tootooataa 240
caagttagaa ggatgtatet getaceattt attectataa ttttagaaag ttggggettg 300
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113 11593
<211> 446
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                                                                         海 东南 名。
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ttggagttgc ttgtggcatg tgcctgggct ggagccttcg agtatgcttt gggatgctcc 180
ccaaaagcaa gacgagcaag acacacacag atactgaaag tgaagcaagc atcttgggag 240
acagegggga gtacaagatg attettgtgg ttegaaatga ettaaagatg ggaaaaggga 300
aagtggctgc ccagtgctct catgctgctg tttcagccta caagcagatt caaagaagaa 360
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agcastcasg accettgttc atcatggagg ascccatggs tacctetgag cetetatetg 180
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 ctttaaaaaa cagattaaaa aaacttattt tgggaaaaaa ctttcggaga tggccaaaga 180
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cctacaatgg gagcagactt aaggcaagat tcatcgggag ctacaggagg ttcattggca 180
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cagaggeeca ageaagaete tggaatetet egag
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<211> 273
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<213> Homo sapiens
<400> 105
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tgctatttgg cactatctgc ttctgtgctt catattaaat cctttaactt gcttcaatgt 180
geatgtgetg gattgagage cacttttgtc ceeetgggcc cacaggaggg teeeggegag 240
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<400> 106
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   actagtaaag gtgactgggt catcetectg ceecagggac actgattaga gaaaateegt 120
   etgtgetgge aataeggeag tgetggacae teggaattee ettgaaggea aaageaagga 180
   acagagegtg attaggtact ggacacetge caagtgetgg geteteteca gtttacagat 240
   gaggaaactg aggctecteg ag
                                                                                                                          262
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   <211> 259
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   <213> Homo sapiens
  <400> 107
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  ccagactgga gtgcagaggt gcaatcatag ctcactgcag cctagaactc ctgggctcat 240
  gcaattgtct cacctcgag
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  assattttta asaggatatt tacatcagtg tagtatgtga agtasacaag aasaagataa 180
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<211> 255

<212> DWa
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 gtattittag. tagagatggg gtttctccat gttggctcag ctagtctcga actcctgacc 120
 tcagatgatc tgccagcctc ggcctcccaa agtgatggga ttacaggcat gagccattgc 180
 gectggecca ggacatttat ttttattget aaatacattt cagtcattta tgtattigtt 240 // 255 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 // 250 //
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 gegecaetgg cttcaccacg eggtcagaca ttgggccegc ccgtgatgca aatgaccetg 180
 tggatgateg ccatgcaccc ccaggcaaga gaaccgttgg ggaccagatg aagaaaaatc 240
 aggetgetga egatgaegae gaggatetaa atgaeaceaa ttaegatgag tttaatgget 300 🖠 💮
 atgetgggag cetettetea agtggaceet acgagaaaga tgatgaggaa geagatgeta 360
 totatgcago cotggataaa aggatggatg aaagaagaaa agaaagacgg gagotatoto 420
                                                                                         423
 <210> 111
 <211> 203
 <212> DNA-
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<213> Homo sapiens
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 aaacactgag cccccttctc gag
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 <211> 257
 <212> DNA
 <213> Homo sapiens
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 cottgttttc tgcctgcctt tatggtccgt tctcattttc agcccccttt cctcattcta 180
 ctctattaat tatgccttta tatggatgca aacttgtaaa atatgtggcc tattttgtgt 240
 gtatacgtgg tctcgag
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 <211> 348
 <212> DNA
 <213> Homo sapiens
 gaattegegg cegegtegae gttggaggag gaggaagagg aagtegaaga etgtggette 60
ctttttttgt tacttggaga ctcgtcgcta cgggtggaca ggtctttgac ttttgaggat 120
 ttgetggttt tggttttgga tggettgtgg gatggggaag ggatgaegge tggtategģg 180
gacacggegg atggggeett gaaggttgag tecatgatge tgagggttge ggeeacatga 240
gggaaagctg tggtgtggga catgagggcg ctcgggtccg gcgatgtcac gaaagctgcg 300
tttgagagca tggctgatgt catcatgtaa gaagaggtga gcctcgag
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<212> DNA
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ttataagaaa gagaaactag gtgttaggat aagtaaaaca ataagcattt ttgtctcttc 180
tgtttttgta gattttaatt gtttaactta ataaaatcac attaattggg gttcaactac 240
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gag
<210> 115
<211> 214
<212> DNA
<213> Homo sapiens
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gcasgastta gtgtaaaatt ggaaaaaata ctcaatgttg aaagctgtca ttgttgagat 180
ctttatgaaa ttattgtgcc catgtccgct cgag
<210> 116
<211> 230
<212> DNA
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<213> Homo sapiens
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 ctaaatacta tteeteagtg atgetgataa ccagcaaagt tttagtttet atgttgggea 180
 tatttttggg gcagccctgt aaggatgtgc tccatggtac aagactcgag
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 <211> 195
 <212> DNA
 <213> Homo sapiens
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 ttttgtagtg tcatcaaatc ttagattatg agctcaaaga ttttatctct atatacacaa 120
 tttctaatat taaaaaaaat agtcgggccg ggtgcggtgg ctcaggcctg taatccagca 180
Cttsaggggc tcgag
                                                        195
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                                                                ....
attatcagat ccagaaaata atattaaaaa attgamagaa ttacgttcta tgttgatgga 180
acaagateet gatgtggetg ttactgtteg aaagetggta attgtttete tgatggagtt 240
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taagacccga aaagaaaccc agaagttaag agaatttgaa gaaggcctgg ttagccaata 360
caagttttat ttggaaaatc tggaacaaat ggttaaagat tggaagcaga ggaagctgaa 420
gaaaagtaat gtagttteet taaaggcata eggaetegag 460
<210> 119
<211> 239
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gcagcatagg gcagctcctg ggaaattggt ttacacatgc ggacaagccc agtagcccag 180
agetaaccca etcaccatce etgaccacag aggagcagat aaggaagcaa gaactcgag 239
         <210> 120
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<212> DNA
                                                                ....
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<400> 120
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tttcattatt cetetaceca aactttacaa gaagtatttt tttttttgag ceagtatete 120
getecateae ceatgetgga atgeagtgge atgateatag eteactgeag ceteaacete 180
                                     191
ccaggetega g
<210> 121
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<212> DNA
<213> Homo sapiens
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 ctttttgtgg tacctgccct agcctagtca gtcattcccc atgctgcccc cttaggctag 180
 agatgcccta ccgccctcag gcctcgctga atgtgccaaa cctcgag
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 <211> 166
 <212> DNA
 <213> Homo sapiens
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 ggctgcatcc tcaaccattg aaatgaattt gaccctgata ctcgag
<210> 123
 <211> 223
<212> DNA
 <213> Homo sapiens
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ccatctaatt attcatcaaa tagcagtaat gctttctttg aaatgtcttc tatatatctt 120
tgttttegtt tetgetttte atetecteat ttetgtteet teecetteec ettetetega 180
tttacttcta acagetttat gteeetttea gtegaeeete gag -\frac{\pi}{2}
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gtccacacag ggtctcactt tgttgcccag gctgctgtac aatggcccag atctegag 178
<210> 125
<211> 226
<212> DNA
<213> Homo sapiens
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ataaacagcc cactttaaca aaaaataggt gcaataaaac tataaaagag aaagcaaggg 180
agtgatgaac agaggttgta gggtgatgat acggaggata ctcgag
<210> 126
<211> 220
<212> DNA
<213> Homo sapiens
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cttcactggt gtttttggtc tcctgctttt ttttttttt ttaaatctga ttacaatggt 120
gttgcacact gttgtggttt atcgtttttt agtgatcctg ttgctcaata accctccagt 180
gctctgctct gaaacagcac cagaacccca cccactcgag
<210> 127
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gagaagaagg agaaaaataa agaggcagct ctcgag
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taagaattat taatatatto caaaggatta ggaatgttac ttttcatgtt otcoologag 180
<210> 129
<211> 204
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                                                                21 to 1 1 1 to
teatttttt tgttggeacc tgtaaggtgg tatctttttc ttgcccagcc ttgggttatg 120
gttacateit eccattgete attgeceace etccagttgg cacetetggt gegeteetgg 180
                                                              186
                                                       204
ctgggtgaag ccgggcctct cgag
                                                             <210> 130
<211> 237
<212> DNA
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ttgctgtttt acacagaga acaggtagac cccacagagg agaaggaggg gattcaacag 120
gggtaeettg ttecaggcag teagtecait tgeetteeta gtacaageee eetegag
<210> 131
<211> 250
<212> DNA
<213> Homo sapiens
<400> 131
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tgaggagtgg gataaaaaca agagtgcttt tecatteagt gataaattag gtgagetgag 180
tgataaaatt ggaageacaa ttgatgacac catcagcaag ttccggagga aagatagága 240
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<210> 132
<211> 258
<212> DNA
<213> Homo sapiens
<400> 132
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 gatectgeaa accattagea greacttete attrectett teeccagece etggeateca 180
 ctaatctact ttatgtctct atggatttgc ctactctggt tgtttcagat aacatttgga 240
 ctttgtgaca gactcgag
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 gaattcgcgg ccgcgtcgac ctttcccaaa attcagaagt taatgggctt ttatgttttt 60
 ctatattttt tttatttcaa tgatttggcc tgtctatgtt aggctaaaaa ataaccttgt 120
 gtatgctacc aacctcgag
                                                                    139
 <210> 134
 <211> 201
 <212> DNA
 <213> Homo sapiens
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 ttetgtgaca getgattgaa gatgatgatg aagaacetet geattetagt taccetttge 120
 ttcccttcae ctcttgtaaa atttggcttg gcaacaatga cattgtcatg cttattgtcc 180
caatatccat ccaatctcga g
                                                                   201
<210> 135
                                                                 ÷
<211> 132
<212> DNA
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<220>
<221> unsure
<222> (84)
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agaacaagcg atccctggct gcantggatg cactcaatac tgatgatgaa aatgatgagg 120
agggteeteg ag
                                                                   132
<210> 136
<211> 190
<212> DNA
<213> Homo sapiens
<400> 136
gaattcgcgg ccgcgtcgac agaagacata ctaatagaac tccttgcttt taattgggga 60
aatagggett taataatttt gaceteaact aaaaatgata tgeaatagte tetgtgtgtg 120
tttgaaatac attgtgttct cagagatttc tacattctca cgttctagtg atttggggca 180
tagactcgag
<210> 137
<211> 220
<212> DNA
<213> Homo sapiens
<400> 137
gaattcgcgg ccgcgtcgac atcacaatga gaccgttggc tttgaatttg agtcgttggt 60
teccatggtg agatgettgt taagaettta tacttgggte aateteteae tttatttgt 120
```

```
agaaccattt gaaatcctag gatgtgcttg ttctggaagg atgacatggg cccagactga 180
     acaagtcagc ttgatgatct taaatgatgg gcaactcgag 220
                                                                          atgater tanacyatyy yennecegay
                                                                                                                                                                                                                                                                                                 ing the second of the second o
     <210> 138
                                                                                       \mathbb{E}_{\mathcal{A}_{i}}(\mathcal{A}_{i}) = 
                                                                                                                                                                                                                                                and the same of the same of the same of
     <211> 156
     <212> DNA
     <213> Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                           200
     <400> 138
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     ataatgcatt tattagttca tagtgttttt tgcttctttt gttcttttct ggtaaatgcc 120
     traggatttt ctttttctcc cgactccccg ctcgag
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    geagetetae tggetgeagg ettgacatee gggtttetag etetgaacga gaageagagt 180
    cctggaaact atcaaacaca acctegeetg tggeaggetg cacteceaca atgetegag 239
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   <210> 140
    <211> 169
    <212> DNA
   <213> Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                 1. 7. - - - 7.
  <400> 140
  gaattegegg eegestegae eeegeeteaa eeteaegast aagetsassa tseassetee 60 💮 💮
                                                                                                                                                                                                                                                                                                                                                                                   1.5
  accacaccca gcgaatttat ttatttttgt agagatgagg tttcaccttt ttgcccaggc 120
  tggtctcaaa ctcctggcct caagtgatct gaccaccagc ggcctcgag 169

<210> 141
<211> 222
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<213> Homo sapiens

<400> 141
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tottttgtag taacteggtag cagagaat cagagaatc taagttctat attggctgtg 60

  atetttgtac taactggtat catggagaat gtgttggcat cacagaaaag gaggctaaga 120
                                                                                                                                                                                                                                                                                                                                                                                     aaatggatgt gtacatcigt aatgattgta aacgggcaca agagggcagc agtgaggaat 180
                                                                                                                                                                                                                                                                                                                                                                                 2014 - P. 1015
 tgtactgtat ctgcagaaca cettatgatg agtcaceteg ag
                                                                                                                                                                                                                                                                                                                                 222
                                                                                                                                                                                                                                                                                                                                                                                    Company States of the second
 <210> 142
 <211> 198
                                                                                                                                                                                                                                                                                                                                                                                    7 7 12 1
 <212> DNA
 <213> Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                               al care of the second of the s
 <400> 142
gaattegegg cegegtegae tgecaaatt: tttaaatete gaaattggte ctaaaagaga 60
ttatttattt atttatttat ttttgagatt gtgccattcc actccagcct gggtgataaa 180
getggaetee gaetegag
<210> 143
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ctttagteag egtetgeeet ggteettegg ttegeagget cacaegettt tttgggttgt 180
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acactttttc cttcttcatr cacaaagctc ttcttccctg ggccctggta tgtatgcctt 120
tetetectae tgtetaatag cgageetega g
<210> 145
<211> 186
<212> DNA
<213> Homo sapiens
<400> 145
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ctttgtcttg cctccttgct ctggtgtgct gagcaatatg gggcaccttc atttctgcag 120
tcagagggtt ggccactggg aatgagaaga accacctctg taccEtggga tgctgtgtca 180
ctcgag
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<210> 146
<211> 460
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accactaggt ggtgctggat gcttgttctt tggccagcca aggttcacgg cgattctccc 180
catgggatet tgagggacca agetgetggg attgggaagg agetteacce tgaccattge 240
cctagccagg ttcccaggag gcctcaccat actecettte agggccaggg ctccagcaag 300
cccagggeaa ggatcetgtg etgetgtetg gttgagagee tgecaeegtg tgtegggagt 360
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agteagttet tgetgeecaa gattteteaa ttetgtetgt ttgeeatatg tgaateatat 180
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cgag
<210> 148
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<213> Homo sapiens
<400> 148
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   tattttgcat tagtgattat gattettate ceaaaattee tegag
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   <210> 149
   <211> 252
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  totaattica ggattggcat electgeett titteetgett ettggcattt tageatatet 120
  ccagtagggt gtcctcgaat tctgaatacc aatttacgcc aaattatggt cattagtgtc 180
  etggetgetg etgttteact titatatitt tetgttgtea taateegaaa taagtatggg 240
  cgagateteg ag
                                                                                                                                  252
  <210>. 150
  <211> 136
                                 . .
  <212> DNA
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 gaattegegg cegegtegae agacattgtt etttagecat tgtatettta atagtetttt 60
                                                                                                                                                 The second
 aaacacatto atototgggo taaaaatgot ttttaaaaaa accaaaaaga gtacttttot 120
                                                                                                                               136 (m) ( ) ( ) ( ) ( ) ( )
 agaagcattg ctcgag
 <210> 151
                                <211> 18B
 <212> DNA
 <213> Homo sapiens
 <400> 151
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 taatttatga tgttattgtt gaacctccaa gtgtcggttc tatgactgat gaacatggac 180
 acctcgag.
                                                                                                                                188
                                . N. C. Brancher, C. C. B. B. Brancher, C. B. Brancher, B. Brancher, S. B. Brancher, B. Brancher, B. B. Brancher, B.
 <210> 152
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 <212> DNA
 <213> Homo sapiens
                                                                                                                                                   ·特别。"是一个。"
 <400> 152
                                                                                                                                                 ttcacagaga gaacatccta ataatatcag tttagtacaa aatageggca tettagtgaa 120 cettgtattt tteetttta rtagagtta tettagtgaa 120
                                                                                                                                                 cettgtattt tteetttttg ttgeagttgt tgetagaaaa cataategga aggaeetega 180
<210> 153
<211> 251
<212> DNA
<213> Homo sapiens
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gaattegegg eegegtegae caaceetetg gettagtaag tigiggitti teigaeetit 60
ttaaagtttg agaggacatt ttatttatat taaccaattt atttgaattt cagtctcaga 120
Agrattaaat attagttcat aagattgtta atctgctggg tcaggcaaat acagaagagt 180
ttttcacttt attettgatt attttactta tgatcattte caatttagtt ggggtaataa 240
cctgcctcga g
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 <211> 224
 <212> DNA
 <213> Homo sapiens
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 Ettatatate agazeatte agettgette acttttatga aagetttatt atgagtttga 120
 aagcaattct gcattttctt aacattgtaa ctggtgttga gttgaaggca ggcccctggg 180
 agecettigt gggcaattee etteactetg gaggetgeet egag
 <210> 155
 <211> 145
 <212> DNA
 <213> Homo sapiens
 <400> 155
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 tttgccatta tattgtttta tgttggtttt ccataacctc actatgctga atagcagttt 120
 ggcactctgt ctggtcgctc tcgag
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 <211> 163
 <212> DNA
 <213> Homo sapiens
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ttttaaattt tgacgetttg aatagataac acttttacat ggttcaaaaa taatataaag 120
agctatacat tgaaaaatgt tgcttccact cctgttcctc gag
<210> 157
<211> 197
<212> DNA
<213> Homo sapiens
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gtttctacca cttggggtgc tttttgcttt tctttteact tcccacatct caagcacctg 180
ctgcgggtca gctcgag
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<210> 158
<211> 255
<212> INA
<213> Homo sapiens
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agaatagaac agaataatag aatagaatag aacagaatag aataatagaa tagaattata 180
ggtatgagec gtggtgeetg geetetaata gtttttttgt tgttgttgtt gttgttttt 240
atggetteee tegag
                                                                  255
<210> 159
<211> 150
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<213> Homo sapiens
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   tcaggctctg tcgcccaggc tggactcgag 150
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    <211> 114
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   <213> Homo sapiens
   <400> 160
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   tgtgaatete tettateett gaaacttett atgetgttga taaacttaet egag 1
<210> 161
<211> 166
                                                                                                                                                                                                                       114
   <212> DNA
   <213> Homo sapiens
   <400> 161
  gaattcgcgg ccgcgtcgac ctatgaatca cgatactacg atgatcctcg ggaatacagg 60
  gattacagga atgatcetta tgaacaagat attagggaat atagttacag gcaaagggaa 120
  cgagaaagag aacgtgaaag atttgagtct gaccagggac ctcgag
                                                  num and the second materials and the second of the second 
  <210> 162
  <211> 182
  <212> DNA
  <213> Homo sapiens
  <400> 162
  gaattegegg cegegtegae attetttgtt accetttaca agtataagtg tttacaagta 60
  taagtgttac cttacatgga aacgaagaaa caaaattcat aaatttaaat tcataaattt 120
 agetgaaaga taetgattea atttgtatae agtgaatata aatgagaega cagetteteg 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 
                                                                                                                                                                                                                    182
<400> 163
 gaattegegg cegegtegae ettttttete tetetettt aaataaacae aagetteaaa 60
                                                                                                                                                                                                                                                  400
 taagcacaca ataatgetgg gcaagcetac tgggatttgg gattetetag ttagttttet 120
 tigoctaaci gagatatota titoatacia cicitoatic occaaatata teaticocci 180 🚟
 ctctacctcc cctcccaget gcccccacaa cctcgag
                                                                                                                                                                                                                                          5 25 1.92 - 1.27 S
 <210> 164
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 <213> Homo sapiens
                                     gaattegegg cegegtegae geachatage agtttetaag caatgaatga gaggaeaegt 60 atgttggtga etttgttgtt tetetreate cetecaataa ataaaacega gagttttgtg 120
                                                                                                                                                                        165
gacagggatt tattagagtt tcatcattta gttgacaggc tcgag
<210> 165
<211> 227
<212> DNA
<213> Homo sapiens
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 teatgtgtta tattatgteg catgtgttat gttatatgta tatatatat tgtataacae 180
 atatatatat gtcatgtgtt atattatgtg ggggggaaaa actcgag
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 <212> DNA
 <213> Homo sapiens
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aataaagaat etetattgta tttttetaet gacaatgcaa atgettatet taaaacatet 120
aattttttcc cccttttcac aggcaagcac aactgtaaca cttccagaat ctcagttcct 180
tgccagttgt cattetgaag catecetega g
<210> 167
<211> 218
<212> DNA
<213> Homo sapiens
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ccagaaaaaa atctatagta caaatacada tgaaattcca tcaactgttt cattttttt 180
taatttttet taatettgtt cagggeatae atetegag
                                                                218
<210> 168
<211> 238
<212> DNA
<213> Homo sapiens
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ggettetgee agaggteetg cattetteat atetetgtte eteateagte actgeaaage 120
tgatcagaca gattggcatg gtgttcagca ttttgagttc cagactctgg cgatgggaga 180
taggteattt ggaattttte ceteateece teeteaaaac caaateagaa atetegag 238
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<211> 265
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<221> unsure
<222> (31)
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gagacggagt cttgctetgt caaccagget ggagtgcagt ggcatgatet cagetcaetg 240
caaccteege eteeegggge tegag
                                                               265
<210> 170
<211> 230
<212> DNA
<213> Homo sapiens
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  aaccagtetg gggatttget tgeetggtga gteteatatg ceatattatg aatatgaaaa 180
  taatgaagtt aattteetgt tgeetttetg tgteageeac aaacetegag 230
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  <211> 293
  <212> DNA
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 ggcacatgtt tgatgtggcc agtggccgcc tgatgcggac ctgctacacc ggccctgggg 180
 ggactgtgga geacagcaac ceaccetget ggggetteet ggaggactae geettegtgg 240
 tgeggggeet getggacetg tatgaggeet cacaggagag tgegtggete gag 293
 <210> 172
 <211> 139
 <212> DNA
 <213> Homo sapiens
 <400> 172
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 tggtctgttc aggctttctc tcttcctgat tcaagctggg cagg6tgtat gtttccagga 120
 atttaccatt tccctcgag
                                                                   139
 <210> 173
 <210> 173
<211> 149
<212> DNA
<213> Homo sapiens
                                                      \gamma = 2 \gamma + \gamma (\gamma + \gamma \gamma^2)^{2d/4}
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caettttet agatattett ccaateeeeg aegtegggea tetaattgtt gttetgataa 120
tgaaaatgge caeteeeeg ggaetegag
                                                                149
 tgaaaatggc cacteceeg ggaetegag
 <210> 174
 <211>, 209
 <212> DNA
 <213> Homo sapiens
 <400> 174
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 adataatett tatgrateta tittetgeatt ettagette etteteett traceracee 120
aaccaaatet titeaaggett agigaaaatg atticettee tgaggicagi eettgeeeaa 180
amagatecet cacatectet amaetegag
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<211> 223
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<213> Homo sapiens
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tatgateteg geteactgea geetggacet cetaggetea ageaatecte ceacetegge 180
tatgateteg geteactgea geelgyaeer etemps-temps coccecacata getgggaeta caggtgeagg etategaete gag 223
                                                        (2) No. 10 No. 10 No.
```

<210> 176

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<211> 151
 <212> DNA
 <213> Homo sapiens
 <400> 176
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 tacacatect teaagaceca atteactega g
 <210> 177
 <211> 327
 <212> DNA
 <213> Homo sapiens
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gagttegatt tacaaaatat ttgatrgetg tttttgtata ttatctcagt getetaaaat 120
taccctagca aacgtgcagg aatgggtgta ggccccttaa ataaaaatgg aattagttat 180
gttgggtttt tttttttgc tgtttcactg ttacaattcc ccactgtcaa aggctcattc 240
cacaattttg tgggattagg gacaatggga tgtcatctct cagctggcta cttcttgccg 300
aacagggtca acgcggggca actcgag
<210> 178
<211> 500
<212> DNA
                                                 ‡.
<213> Homo sapiens
<400> 178
gaatteggee aaagaggeet agaggggege tgegaggtat aetgetetee tetetgggat 60
etgtgagtaa tacactacct etgetattte atgeaccect getattteac gttgeeteet 120
ctgtgtctca cctgcccagc acacctgaat ctacagtatt tcctggtcag ggcattccta 180
gagagtggct atcttggtag gaataaacca gaaacaggtc agacaagagc cccaagagtg 240
totgtcaata taatcaagtc cttatgagag aggacatctg gtcacaggtg gacacttagg 300
cattaggcct tccaccagaa agaagtatcc caagaaaggc acactgcaga cagccacgac 360
cacctcccct gcatcagage agggetagag tttatagcca ctttctagag agagetcaag 420
aactaattag aaagaaaaaa aaatacaaca cacttgteca tgttaaaact gggatttgga 480
cccatgccat ctggctcgag :
                                                                   500
<210> 179
<211> 226
<212> DNA
<213> Homo sapiens
<400> 179
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ttgetattgt tgeceagget ggagtgeagt ggeacgatet cageteactg caateteege 180
ctcccaggtt caaactattc teetgeetca geeteecaag etegag
<210> 180
<211> 272
<212> DNA
<213> Homo sapiens
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getttetta ggagttttet tetteteatt cetaccatga tgtgagaatt gaetgagetg 180
gtttcctcct atttgttgta cacattacta gtaaccatta cttataatta ttttagatga 240
tgctagcatc atttttactg atanggctcg ag
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<210> 181
    <211> 210
    <212> DNA
                                            sapiens — province of the control of
    <213> Homo sapiens
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    ctgtttcttt taaatcetet gtgcacaggg etetggeett tagtaaactg tttttctgte 120
    ttacgtcatg ctgactgggt gctaggggct gattacaaag gggaagagtt gaacagacat 180
   caggggccga tgaaactaaa tggactcgag
    <210> 182
   <211> 353·
   <212> DNA
   <213> Homo sapiens
   <400> 182
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   agaaagaggt aattcaaagg caggaggtaa aatgatcact acttgcacaa tgagtgtata 120
   cctgaagaaa cccaagggaa tccactgaaa aactactatc aacatgaaga gagtttcaga 180
   aaagatgaca gotgggtaca aaattaacac agagaaccca ataggtatca catataaacc 240
   aacaactagt gagaagatac aatggaagaa atggcettat tttcaaaagg aacaaaaagt 300
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 ggcggcagca cactcgag
                                                                                                                                                                                                                                                         198
 <210> 184
 <211> 216
                                                                                                                                                                                                                                                             a adams i gargay
 <212> DNA
 <213> Homo sapiens
                                                             Commence of the contract of th
 tteagastat caatggaats ttätgttgag setttetetg gettteetts setesactats 120 % 🕬 🛒 🔗 🦠
 totocaactt tagagateat cocototoco tecagigogt tetatotoco coacaccae 180 80 10
cotagatact coefficies coacefecte etegag : 15 (2003) 10 (2003) 10 (2003) 10 (2003) 10 (2003)
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acaacttttg cagctgcctc catggcattt ccacttggtt atctattaat aatatttatc 180
ctaatgtgtt cagaagcaaa tttctgttcc attctacctc ccaattctgc tccaccttca 240
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       tagatetgae agreeatgtg tettetteec tegag
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> Will be a control of the 
      <213> Homo sapiens and the state of the stat
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      aaagcgccct etetecetec acceteageg eccetgteet tggcatgttt tgtateageg 240
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      atcattctga actgtacata tttatgtagc gagaggctcg ag
                                                                                                                                                                                                                    1.05 10.000
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      atgeateteg ag
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 aataaattat agaagtgaag gttgcactta ataagcctgt gcttattttt ccatttgagg 240
 tgcatatate acataaggtg gtattagtge tettitigtet tgaagetagt ggecatgttg 300
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agtettgetg tgteacccag gttggagtge ggtggeega tetetgetea etgeaggete 180
caecteegg gttcacgeca ttctcctgcc tcagcctccc aagcagttgg gactgcaggt 240
gcccaccacc acacgetega g
                                                              261
<210> 204
<211> 211
               to escuera en el compositorio della compositorio della compositoria di differenzia di composito di compositori
                                        Burgara Barangaran Barangaran Barangaran Barangaran Barangaran Barangaran Barangaran Barangaran Barangaran Bar
<212> DNA
                <213> Homo sapiens
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cccactgcaa cctccacctc ccaggctcga g
                                                             211
<210> 205
<211> 223
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<213> Homo sapiens
                                                                      tubi jila
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cegeceatee agagggteec eagagacate cetgecatge tecetgetge teggetteec 180
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                                                ÷
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aaactcgag
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<213> Homo sapiens

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 tetteatete etttaattte tetettttea tettetttee tgaatatete ttgaageace 180
 aaaaactcga g
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tgtataatca attetgtata ataccagaat teacettata aattatagtg atttttaaac 180
atttattctg gactccccat aagttttgag atataaaaat acactgaaat tagaacataa 240
ataacatgaa tttagtaaca ctcatgctcg ag
                                         and the state of t
<210> 214
                              Control of the second
<211> 207
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<400> 214·
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ggtatgaaca gttgtcaatt ctgtaccata gtaagcactg tgatgctatt tcattttgtt 180 .
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cettgtettt acaaaagaca aageetagge agteagteag tageactaga gtatteetta 180
                                                                                                                                                        and the
tgggcattaa gaatttetee tgttteetge cteaateeee etteeetega g
                                                                                                                                         231
                                                                                                                                            Bally and the second and
<210> 216
<211> 159
<212> DNA

<213> Homo sapiens

<pre
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                                                                                                                                           159
ctgctgccat gctaccatct accctccacc ccactcgag
<210> 217
<211> 216
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<213> Homo sapiens
                                                         la granda de la companya di kacamatan da kacamatan da kacamatan da kacamatan da kacamatan da kacamatan da kacam
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aaaaaattac ccccaatttt agtgactttt acagaatcaa aaaatactta tatgcttatg 120
aatctgcagt ttaggcaggg cttggtggge ctageteate tttgetttet gtggggteae 180
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216

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<210> 223
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<213> Homo sapiens
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   gggttagaaa atcctatatt ggacaatctc tattagatga ctaatattat taatctattt 180
   tagaaaaccc tatettttac aaactetgaa gtatttttca actacaaaat tecateatga 240
   agattttact cgag
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   <211> 249
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   agagtgatca tiggggaaat fittcctcctc agccttattt tggccttitg aaacagcaac 180
   assgactgcc tagtcasata acteettage tgattttace etcasatgcg ttttegtact 240
   ttcctcgag
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<212> DNA
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  <213> Homo sapiens
  <400> 225
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  cagttattta ccctgtccca gaggccatgt tttgcctgtt gtcacttggt atgcttctct 180
  tatgcaataa tattttgtat gaaggtttct eccaggcact gtgettggaa tettacacca 240
and the second second period of the second
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 cattactgta taaatttttc ccagaggaga aaatttaatt tttccttata tttccaggat 120
 tatgogitgt toatatatat atatattet teotacattt atttttcttt cttttttaa 180
 cttttgtttt aggtttggtg gtactctcga g
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 <210> 227
                                                         (a) Control of the property of the control of th
<211> 215
<212> DNA
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 <213> Homo sapiens
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atgaattttt titttacac aaatgagttt tcattggtca tgtttctttt tatttcttct 180
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<210> 231
<211> 344
<212> DNA
<213> Homo sapiers
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ctteetttga cetetetttt ceatecatga ageceteagg ceettgecat tttttcaeca 180
cagaaaactc atggettete cagaageetg agtatetete ttteecagea caaatggeag 240
catetetate etgececate tgggccactt cagetteetg tagacaceca agacagatgg 300
acagtgttgg agggaatcag gctttgagga tccagagtct cgag
<210> 232
<211> 323
<212> DNA
<213> Homo sapiens
<400> 232
gaattcggcc aaagaggcct atctttaaca catttttgga tttgatttgt taatattttt 60
agrighting and attitude attention of agriculture and additional agriculture and agriculture and agriculture and agriculture and agriculture agricultur
agtatetttg taattttttt ttaagagatg gggtettget ttgttgeeca ggetggagta 190
caatgtgcaa tcataggtct ctgcagcctt gtattcctgg actcaagcaa tcctcctgcc 240
tragretett gggtagetgg gactaraggt atatacrace atgecraget tetttgtgtg 300
gttttagtga cagagatete gag
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<211> 478
<212> DNA
<213> Homo sapiens
<400> 233
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```

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agaatcgcct ggagggattt tgccttgaaa attaaattct gatatcaatt tctaaaatta 180.
  tttacaatat taaagttgaa atgaatccat cacacagttt cettecaatg ttagtettte 240
  aagtgaacct acttteetat tageagteac etaaaaacaa ataageaaac aaacaggtaa 300
  ctcagtette cetetgacte agtgtgagga aagggacagg cageatetgg tgacagetta 360
  cttcagtggg tctccatggt tcttcaccaa aacoacttgt gtttcctctt caagcaccac 420
  agtatectat gacactagge cagtgggete teamactttt ggmattemagg maetegag 478
                               <210> 234
  <211> 119
  <212> DNA
  <213> Homo sapiens
  <400> 234
  gaatteggee aaagaggeet atetagaeet gggtaagtta cagaggeaaa taaaaccage 60
  aattataaca aaatatatga agtatgatgg tagagatata tattatacgg gctctcgag 119
  <210> 235
  <211> 253
  <212> DNA
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  tatttggttg teetttaagt gtgeetetga tatgttgeae ttatggagag gteacacett 180
  gecagetgeg ettacettac etatacetge caacetaggg gtetgetact gtcaaacaca 240
  gcatcaactc gag
  <210> 236
                                        (-1, \omega^{-1}, \omega^{-1},
                                                                                                                                                                                in the springer of the second
  <211> 244
                                                                                                                              Committee of the committee of
  <212> DNA
  <213> Homo sapiens
                                                                                                                          ing the bag of the basis in the ball we
  <400> 236
  gaatteggee aaagaggeet aaaggaatge titteacaata gigtateagi tettiigitt 60
  tgttaaagtt ggaatttatt ctgttgccag catttaagta gtcatggcaa gtcctgtttt 120
  taagacettt tggagactgg agetttetgt tecattaagt ettttgttta taetacaaat 180
  tgtcacctca cttagttcag atgaaatctg ttactctaca aggaaggtgt tcatcaatct 240
  cgag
 <210> 237

<211> 171

<212> DNA

<213> Homo sapiens

                                                                                                                                                             Contract to the contract of the
 <400> 237
 gaatteggee aaagaggeet actttgggat tggatgatac agettttget tetgtgtagt 60
 atacctgtac atacttgttt caggeagect ttetttaatg ttttcagttg gtttgtatte 120
 tgtageteag tagetgetaa taaagttaaa gateetgtgt eeagtetega g
                                                                                                                                                             171
 <210> 238
<211> 200
<212> DNA
<213> Homo sapiens
                                                                                                                                         4 May 11 4 4 4 4
 <400> 238
 gaatteggee aaagaggeet ataccagtge attaatttgg geaaggaaag tgteataatt 60
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 gggggttggt etggeetaet gggetgaeat taactacaat tatgggaaat geasasgttg 180
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 tttggatatg gctcctcgag
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<210> 239
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tectgetgge etetttgata agggeactaa tectatteat gaggatggag eeetegag
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<212> DNA
<213> Homo sapiens
<400> 240
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ctaggttgag gggttgtaat ttaaaataac atagtcagag aagtcatgaa ggaaaaatac 180
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ggctctcgag
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<211> 223
<212> DNA
<213> Homo sapiens
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                                                                223
ttttttttg aggeggagte tegetetgte gecasacete gag
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<211> 240
<212> DNA
<213> Homo sapiens
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teceaaacty asactatace atteaaacaa cagegeteee cattteecea teceetegay 240
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<211> 268
<212> DNA
<213> Homo sapiens
<400> 243
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ganagaagag atgaamaata ccagttggat tagaamgaac tggcttcttg tagctgggat 180
atcittcata ggtgtccatc ttggaacata ctttttgcag aggtctgcaa agcagtctgt 240
aaaatttcag totcaaagca aactcgag
<210> 244
<211> 190
<212> DNA
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<213> Homo sapiens
   <400> 244
   gaatteggee aaagaggeet accaaactat aactgteetg cetttettta etggtaatat 60 ···
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   gttttttacc atttgtttt tgttttgttt tgtttttta cctagagaag tgaaaggggc 180
   accectegag
                                                                                                                                                                                                           190
   <210> 245
   <211> 286
   <212> DNA
   <213> Homo sapiens
   <400> 245
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   ttagatacag aacaatatta tattctaatt gggcttgctt taaatttgta aataaacata 120
   angggttgae aactttgtga tattggaact ctgcaactaa gtacataata tgtatttcca 180
   tttgtccaga tctacttttg tgtcttttgg aagtgtttta tggtttactt catgtatgat 240
   ectcatgtat atttattatg tttctgtttt aatacgttca ctcgag
   <210> 246
  <211> 222
 <213> Homo sapiens
<400> 246
gaatteggee aaagaggeet attagaaace actttectoo bosanchoo
 attecettga gecatettat cagaagagte tteaaactta ettaaagagt tetggeagtg 120
 tageatetet tecacaatea gacaggteet catecagete acaggaaagt etcaagtalig 180
 gtcatataaa taatgattac tagtctcttc ctcatcctcg ag
 <210> 247
 <211> 254
 <212> DNA
 <213> Homo sapiens and a second decrease and
                      gaatteggee aaagaggeet actttagtet gaacegggat ettacaggag aattagagta 60 🔧
 tgctacaaaa atttctcgtt tttcaaatgt ctatcatctc tcaattcata tttcaaaaaa 120
 actteggage agataegaca aaggtetttt atattggeet gagaggagag tggaetgage 180
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gggtcctact cgag
 <210> 248
<211> 264
<212> DNA
<213> Homo sapiens
                                                                                                                                                                  The second of th
<400> 248
gaatteggee aaagaggeet aatttaagga atggtgaeta etgaggagaa ttgeagtett 60
gaatacttag catattette atteattaaa ettttattaa gtgeetgtge tgtgetagte 120
actgecagge agetgectga tacatggtte etcetgectg ggagetecca gtetgagaca 180
gaaaggtcaa cagttctaat ggcaggagtt aagtgccatg agagcatatg ggagggcag 240
ccttacagcc aggataagct cgag
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<210> 249
<211> 263
<212> DNA
                                                <213> Homo sapiens
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gaatteggee aaagaggeet aegattgaat tetagaeett eeteteteat ettttgetet 60
cetettagyt ttteteetta tttteeatag caagagtgtg cagagttttg attggtgaga 120
tttaccattt gatatactca cataagttca ggtttcagaa tatctataaa tttatgatta 180
accanggitt gitatatata atteactigg catatigiga cigittatic tatecetaca 240
ctggggtage accccagete gag
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<211> 113
<212> DNA
<213> Homo sapiens
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<213> Homo sapiens
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tttacactgt gttatctcat ggcaaactac tcatatatac atttagettc aagatatata 180
gaaacgtage aaateegagt gtgeacgetg cetetgeege agtggagtga ageteaacet 240
                                                                244
                                                             Ţ
<210> 252
<211> 291
<212> DNA
<213> Homo sapiens
<400> 252
gaatteggee aaagaggeet aaatttatta aggggtagat cacttttaga aaaattgetg 60
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aaagagtgtt tattttagag ettteettgt attteaaatt gaataacagg catteteate 180
ataaagtttt taaaagaaag gcaaagcaga ctttctgtag gaaatcattg acgttaaaat 240
agttataatt gtgaacagat acaacattta ttcatgaagg taattctcga g
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<211> 195
<212> DNA
<213> Homo sapiens
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acttttttca ettttteec tttgtatate agttaegggt tacaactggt teattetgaa 120
aacaacaaca acaacagtoc attcatattt tttaacaatt gtataagtgc ccaagtaatt 180
cactacagec tegag
<210> 254
<211> 284
<212> DNA
<213> Homo sapiens
<400> 254
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gteteecate ettgeaaac tgetgettag tacteaggtg ttetetaggt tgttetggaa 120
catttacaaa cttctttggg tgtgaggatg tgctgccaca aggccaaaaa tcacattctc 180
```

```
tetetetete eteteetete taccattete eteagtgeca ggtggggaca gattecacce 240 🐇
  actgggcctg ggaggaagaa aagcaccttg gcccccgtct cgag 284
  <210> 255
  <211> 219
  <212> DNA
  <213> Homo sapiens
  <400> 255
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 atttetgtag gateggttgt aatgttacet ttgteattte tgattgtget gatttggate 180
  ttctcccttt tttttattaa tttcgctagt ggactcgag
                                                                                                                               219
                                       and the second s
 <210> 256
  <211> 180
  <212> DNA
 <213> Homo sapiens
 <400> 256
 gantteggee amagaggeet agentactgg tacatgagag cagtagtgtt gtttgetett 60
 attttcaacc agggagetat ctggcacctt ttgtgctcct ggcttttttc aatcatagca 120
                                         The control of the co
 ctattgcatc tectagetat ttettttgcc cagcagggta atattgagte ccateregag 180
 <210> 257
 <211> 500
 <212> DNA
 <213> Homo sapiens
 <400> 257
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 agaaaatgit aaaagagaag aaggcaatga cagcggaagc ctctgagttg gacattaaca 180
 atgcagtgga attagaatgg agaaaaataa gtgactctag tttgctggaa acaatgctgt 240
 etcaagegga etcaetecat actteaaatt caaatagtte tggttteaca aattetgeca 300
 tgcaatatag etttgtttet geaaacgaag caccatteta cetetgggga teateaacta 360
 gtggcttgac canactetea gtaacaagge ettttggaag agccaaaact agatggtete 420
 aagtttttag totggaaata caagcaaaat ttaacaaaat aactgcagtg gcaaaaggat 480
 ttcttactcg tagtctcgag
<210> 258
                                                                                                                                                                                                             • . .
                                                                                                                                                                                       in the second of the second
 <211> 302
 <212> DNA
 <213> Homo sapiens
<400> 258
gaatteggee aaagaggeet agtgeaaaat taaagaatte catgataact atgttattt 60
ecattigeat gigeattigt ciategatee etaaaatata tettaaatta gietgettit 120
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caggeccaaa tgatecteec geetcageet caegagtage tggggeggga ggaccaeteg 300
                                                                                                                                                                                     302
<210> 259
<211> 283
                                           <212> DNA
<213> Homo sapiens
                               gaatteggee aaagaggeet ataaagatta ttatattaat teaaetttga tetgatatat 60
```

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cacttanact anaggggtgt gtgtggtgta tgcttgtttc ctatttetgc tetttanaga 120
tactttgaat caataaaacc attagtctac aaatcaaatt gtgaacttaa tctctagaaa 180
gagaatataa eteageeatt tataggaatt taggtteaag tacaggatat atganatett 240
ttcccagtat ttcagaatgt acttaattca cagatcactc gag
<210> 260
<211> 279
<212> DNA
<213> Homo sapiens
<400> 260
gaatteggee aaagaggeet actggeetea agtgattete etgeetegge tteecaaggt 60
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ggcatttgaa ctgagatctg aaagtagaat atacttgaag tagatgaaga gaggaatgac 180
aatattttat agcagaaagg acagcagccc ttggtggcag gaggcatgtt gtattccagg 240
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<210> 261
<211> 208
<212> DNA
<213> Homo sapiens
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coatacacce atagaattea gaacaatett tteetagtae tagaattggt geateatgat 120
tatttacatg tocatottgc aattaataaa aatactaaca atactaacat acgttggtca 180
ggcaggcact gcacaaagcg acctcgag
                                                                   208
<210> 262
<211> 160
<212> DNA
<213> Homo sapiens
<400> 262
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ageattttgt tacagcagag accagaattg agaaaaccag aataaaaaaa ctgttcccta 120
ggccatgaag gccggccttc atgccctagt tctccctata
<210> 263
<211> 226
<212> DNA
<213> Homo sapiens
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atatttcaac tettatacte teacaggtag aatgaactgt gtactggeca catatggaag 180
cattgoattg attgtettat attteaagtt aaggteecca ctegag
                                                                  226
<210> 264
<211> 201
<212> DNA
<213> Homo sapiens
<400> 264
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tetttegtgg tatteetgte atetttgtge ateacagtea getttgtatt cetagettgt 180
                                                                  201
aagctacggg agaaactcga g
```

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<210> 265
     <211> 229
     <212> DNA
     <213> Homo sapiens
     <400> 265
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     atgetteaaa cagtgtaaat cetataetge accetgteea cetetgetee etecteeete 180
     ccetgagagt gaggacctca tccgaccatg taattaccat tcgctcgag. 229
                                                                                                                                                                                         <210> 266
    <211> 249
     <212> DNA
    <213> Homo sapiens
   <400> 266
   gaatteggee aaagaggeet actttaacea teeeteeeta tgaagtataa aaaaggtaet 60
   gccagctggg tgcagtggct cacgcctgta atcgcagcat tttgggaggc cgaggtgggt 120
   ggatcacctg aggtcaggag ttcgagacca ggatggccgg catggcgaaa ccgcgtctgt 180
   actaaaagta caaaattagt tgggcgtggg ggtgcgtgcc tgtggtttca gctacctgga 240
                                                                                                                                                                                                                                                                                                             249
                                                                                                                                                                                            (\mathcal{L}_{\mathcal{A}}^{(n)}, \mathcal{L}_{\mathcal{A}}^{(n)}, \mathcal{L}_{\mathcal{A}
                                                                                    The first of the section of the sect
   <210> 267
                                                                                                                                                                                                                                                                                                    4.5
                                                                                                                                                                                           <211> 276
   <212> DNA
   <213> Homo sapiens
  <400> 267
  gaatteggee aaagaggeet agtaggggag tgegtgaggg eggegetgat tgataggage 60
   caaggccaat cataacgatt accgtagact ggaaggcgga ccaagaatac gctaatgagt 120
  tgctaatttt gacagatgtc cttcggcctt ctccgfgtgt tctccattgt gatccccttt 180
  ctctatgtcg ggacactcat tagcaagaac tttgctgctc tacttgagga acatgacatt 240
 tttgttccag aggatgatga tgatgatgag ctcgag 276 276 270 268
                                                                                                                                                                                                                                                                                                 tere i sa se com applicate
  <211> 312
                                                                        ing water begin with the expension of
                                                                                                                                                                                       Constituting of the forest configuration
  <212> DNA
 <213> Homo sapiens
 <400> 268
 gaatteggee aaagaggeet agtetteaat aaattgatta gtateaaagg gaagatetta 60
 aatottggag ottitetitt tggaacotti taattoagit ootgicacao ottoottiga 120
 tttttaaaaa aatotoocot taactgttot gggatotoac tgotgotoco acacgcotaa 180
 cacccatece etecacatte acceanaggg agacaetggg ggaggeaagt gtatggaatg 240
 totttgcatt tagatgctgg aactetgaca toatotottt tattcataag:tttattcaac 300
                                                                                                                                                                                                                                                                                                                                                        orte de de la companya de la compan
                                                                                                                                                                                                                                                                                                                                                actatactcg ag [Nife of Schart of Following to Schart making of Figure 1998, 1998]
                                                                                                                                                                                                                                                     151 7.541
<210> 269
<211> 187
<212> DNA
<213> Homo sapiens
<400> 269
gaatteggee aaagaggeet agagttactg aageacatea aacacaaaga cagtaattat 60
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aaacaaatat ctaaagctgt tcacagcaac cctggtgacc ctgctctttg gtctctgttg 180
                                                                                         187
tetegag
<210> 270
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<211> 328
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (31)
<400> 270
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ggagtataac agctatttac atagcatttg catcatatta ggtattctaa ctcatctgga 180
gatgattgaa agtatatggg aagatgtgcc aaggttatat gcasatacta tgccatttta 240
taatagggac ttgagtattt gcagatttgg gcatctctgg gaggtcctgg aaccagtccc 300
ctcggatacc aaggtacggc aactcgag
<210> 271
<211> 207
<212> DNA
<213> Homo sapiens
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aacacaaeca catgetetge tgtateatet cettgteetg aaaagetetg tttgeeteeg 180
actteattga gacceatcaa actegag
<210> 272
<211> 301
<212> DNA
<213> Homo sapiens
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attteteatt atgteeagea tgtggtttac catgtttate atcteetgtt gtettaaggt 180
caggggttgc aacaagggag gtcaaaattg gccggggctg agcacaaata cacacccaca 240
geoetteagt gaceteagge ageaagatge eteceacete ecceeaacae ecaagetega 300
<210> 273
<211> 149
<212> DNA
<213> Homo sapiens
<400> 273
gaatteggee aaagaggeet aggeaegete teeteetace egaceaacet ceetaecaee 60
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tcamattcac maccangacc tgcctcgag
                                                                  149
<210> 274
<211> 231
<212> DNA
<213> Homo sapiens
<400> 274
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ctgagtagaa ccaagaaaaa ctaattgaag agtatatget tatgtattat etettgetgt 180
gatttaacca atcttgttac atgtattact aataaaagtc cccagctcga g
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Santa Kabupatèn (Korata)
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 cetggeettt tttttgagag gagaeettge tgtgttgeee ageetggtet tgaacteetg 180
  geetcaaatg atecteecaa agtgetggga ttacaageat gageeacegt geecageeca 240
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  <212> DNA
 <213> Homo sapiens

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 caggiacete tiggaagtag acactgagga titteagtitig tittgactice tgccagetga 180
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cataaagaga tttttaattt ttatgtgtta tatctttgga tcttttctt ttttattct 180
etegttatet ttacaettag aaaattetea tgtaegeeag gtgegatgge teatgeetgt 240
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<213> Homo sapiens
                                                             A Company of Salash Commencer of the Com
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agogtttatt gagaaactca aatgaatata cittitgaat tacigicatc aaaagigtac 180 🕒
gyetteetgt getgettgtg teaaatggaa eeggaeeteg ag
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cotcacccae tetgeactgg ggegtiteet actgegeete gtgetggegg acgeagetgg 240
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<213> Homo sapiens
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cactaaatag tagagccaga attcaaacca aagctatctg atccagttcc taccattctt 180
aaccattctg ctaatttcca gaagtccagc tgataaagtg taaaacaaaa gttgtttgtt 240
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ataatgtttc tcatgagcag gaagaaggca ttcctggccg aggtgcagaa attggtgccg 180
tagatggcaa tcatgatgta ggcattccta ttaaggaatt tgatgaactt ctccaggcac 240
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 teaagtttae atacagtgaa aaatacceag atgaagetee cetttatgaa atatteteee 240
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ggtgtattet geteggeete eteteceet ecceagatag eteteceage etggggeaeg 300
gacageaeag actitigeaga cateaeeegg ggaggittet eagigeagae aggageigag 360 🦠
gtaggggttg gagaggctga cctcgag
                                                        387
<210> 287
              \mathcal{T} = \{ \{ \{ (x,y) \in \mathcal{T} : |x| \leq n \} \} \} 
                                                   <211> 369
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acattgaaag tattaactgt ttgcataaga tattcttgta atatccagga tttcttataa 240
gaactgagat tttttaaaaa ttattttctg tctcagtaaa gctttttct acacagatat 300
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ataatatata atgetgtita cagttettta aaaaatatgt aaettaaaaa etcagattgg 180
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atatatgaca cattitite citigacicit cettgeggaa atticattae tigiteatag 360
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<211> 151
<212> DNA
<213> Homo sapiens
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acattageaa taagaacata gcaacaaagt geettetegt eeteettett tetagttaet 240
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  ctgetactgc atgtataaca ctgtctttaa tgttcacttt tgtgttcaga tatttgtata 360
  ttcagttttg ttgactgtag ttttccttaa gggttttctt aaagcaatga ctatttatta 420
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  <210> 294
  <211> 264
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 tattatgaaa tetcacteca ggagaaactg ctgggcttcc tgtggctttg tettcttagt 240
 tacttttcc gtgcctgcct cgag
                                                                            \partial_{x_{i}}(x)=\frac{1}{x_{i}}(x)=\frac{1}{x_{i}}
 <210> 295
                                                                       Artist Land
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                                                                            1. 1
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                                                                   243
                                                                    State of the
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                                                                         <213> Homo sapiens
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 gtacagtgtc aatgctacct gtctattggt gtctgtgctg ggaaactagc tgttccctgt 180
 etectetyte tetetytett etetytetet tetegeeegg tettaatate tattteeatt 240
 cettgeeett tgttgtteat gaacatatga geetggaagt caaaggtgta geactegag 299
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 <213> Homo sapiens
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<212> DNA
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gacaatgata ttgacactgt ccctctttgg cagttgcatt agtaactttg aaaggtatat 180
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<211> 159
<212> DNA
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<222> (127)
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    aagcetnaaa aaaaaaaaaa cacccacget cgag
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    <211> 210
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   <213> Homo sapiens
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   tgcaaattaa ataacttgct cctgaatgat cattgagtca acaaggaaat caagatggaa 180
   attamenat tatttament gagtetegag
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   <211> 439
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   <213> Homo sapiens
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  caagccagag ggcctctagg aagaggaaca aaaaatgaag aagaggttat gataaaaaga 360
  tttatggata tgacttttgt ctaatcgagc aaanatctat agatggaaat ctatacgtaa 420
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  <210> 305
  <211> 564
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<213> Homo sapiens
                                                                                                                                             the particle of the section of the s
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                                                                                                                                                                                                     Mark Street
 catggggaag tactttgcca caggaagtgc agatgctttg gtcagcctct gggatgtgga 180
 tgagttagtg tgtgttcggt gcttttccag gctggattgg cctgtaagaa ccctcagttt 240
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 gtggcacccc aaaaggcctc tgctggcatt tgcctgtgát gacaaagacg gcaaatatga 420
                                                                                                                                                                                                     But the state of
 cagcagoogg gaagooggaa otgtgaagot gtttgggott octaatgatt ottgagagga 480
 ggttgtaggg agaggaggcc ccggcagagg tettecttea tgtggttagt ttggtctgtt 540
                                                                                                                                                                                                   100
ctctcggagt gggtgggcet egag
                                                                                                                                                                                                    1258 S. L. Barrier
 <210> 306
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 <211> 258
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gasacccagg tgatcastgt tttcastgcg atcagtasta accatgtgct catgastcag 240
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<210> 307
<211> 352
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<212> DNA
<213> Homo sapiens
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cagacatact gtttgcctag tttattccac tgcttgaaag cgcttcctag ccaatctgaa 360
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<211> 207
<212> DNA
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<212> DNA
<213> Homo sapiens
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ttatatttta ggttaggccg aatggaaact ttatttggat tgcacatctg attatattgt 180
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<210> 312
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<211> 188

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      <213> Homo sapiens
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     gacaatagag ggagactgtg totcaaaaaa aasaasaaa aatotgtatg gaggaggtot 120
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     cactcgag
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     <211> 412
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                                                                                                                                                                                                                                                                                                                                                                            to the besidence of
  <210> 315
   <211> 259
  <212> DNA
  <213> Homo sapiens service of the control of the
                                                                                                                                                                                                                                                                                                                                                                         医髓线激性 医二氏管 网络
                                                                                                                                                                                                                                                                                            Reduction for the grant has him to institute
  gaatteggee aaagaggeet aagettttae agtggaetet ggtattttat ågtteteeae 60
  tggcagetga aatacgtgcc acagtetcaa teggcaggca ggacaactta ggacataatt 120
  tattaaaaag cagattettt tattagatta aatagtaaac aaaatgatte aaataatggg 180
  ttatttacat ttctgcatcc ttggagtaaa cacctacttg aagcataaag ctagagaaga 240
                                                                                                                                                                                                                                                                                                                                                                                                                             J. 1. 4 (1) 10
  aatcaaaacg tototogag
                                                                                                                                                                                                                                                                                                                                                                                                                          State Control of the 
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attitacaaa ccagagagat caagatgcac aggettecac tegatgtecc ttgctgtatt 240
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   tatgcaaatg acaaggcaaa atggcaactc gag
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   egactitigea geacagatet cagggegate etgaggatec teacgatgaa cattacetge 240
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   inger i den gregoria de la companie 
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   ttotgattot otatatoott gooagoootn gitattotao tggttgigaa giggiatoto 180
                                                                                                                                                                                                                                                                                              215
   aggtggtttt ggtttgcatt tecececec tegag
                                                                                                                                                                                                                                                                                              intragação que an estable
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   The second of th
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   aatgetactt tgtcatggaa tgtttaactt gtaacattta tatattgatt aattatacta 180
   ttatgtatgg tttacaatat tgactggett gegtgeecae agetetgaet aetgagtgaa 240
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   tgaagcaacc tcaattettg cetectcaga agaaagaatt ceaetgaggg geataaggca 360
   gaaggagaaa ccgcggatct cgag
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                                                                   and the second of the second o
   <210> 336
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aatcatacat aagaggaaaa ctaggactgg aagaatatgc tgtcttttac ccaccaaatg 180
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  gttggttgtt gttttctccg ttcagtttct ttctttttat aacttggatt atgaaactaa 120
  actttaaccc aaaattaacc ctgttactcg ag
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                                          n tiganista en esta de la compositione de la compos
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ataacaattt gttactaccc aataatgtca aaatatgtta cacgaeccag caatcccact 180
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coetectgtc tgcagatcag tgtttatagg acagaatata atattctact atgctaactt 240
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gagacagteg caetetegee caggetggag geagtggeae asacteaget caeegeaace 180 tecaetteec gagtteaage gatteecete gag 213
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268
  ggacaccaat tecaacccct cectegag
 <210> 373
                                     en de grande de la companya de la c
La companya de la co
La companya de la co
 <211> 480
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                                                  Contract Contract
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 <210> 374
                                                                                                   en de la companya de
La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
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 <213> Mus musculus
 <400> 374
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 tttaaaccaa caattacata ttetteaaat etgetttgaa gtaaagaett taccagagga 180
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<211> 423
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                               a filosopia de la como de la como
La como de l
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coteactitg atgraageca eggetetgee caggicaagg gteacggeaa gaaggtegee 120 •
gatgetetgg ccaatgetge aggeeaecte gatgacetge ceggtgeeet gtetgetetg 180
agegacetge atgeceacaa getgegtgtg gatecegtea actteaaget cetgageeae 240
tgcctgctgg tgaccttggc tagccaccac cetgccgatt tcacccccgc ggtgcatgcc 300
tetetggaca aatteettge etetgtgage acegtgetga cetecaagta eegttaaget 360
geettetgeg gggettgeet tetggeeatg ceettettet etecettgea ceagtacete 420
                                          .
Description of the stage of the control of the second control of the second control of the second control of t
The control of the control o
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                                                                                                                     and a supplied of the
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gtgaggttgg aatttaaget ccageagace aactgeecca agaaggactg gaaaaageeg 360
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tgctgcacag aaactcgtcc gagagtgaag agaggctgaa gtaatagctc aagtagatac 120
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atgccaacag tataaccaca aatgtcacca gccggcagct aatgtatttc atgattaaat 180
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   cagatatote ccacagacte tgeeccacat teteagteac teetgggggt ccaggteegt 300
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  <211> 258
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  <213> Homo sapiens
  <400> 383
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  tatgecatĝg etgtgatgaa ecaecatgta tgecetgtgg agaa@tggte etaeaacgag 240 🗀
 tccaaggttc tccctata
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 <210> 384
<211> 207
<212> DNA
<213> Homo sapiens
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 catcagaaac tgctgatgca aatagggtat tctgtggtca acttggtgcc gtgtatgtgt 180
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                                    and the control of t
The control of 
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 <211> 193
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 <213> Homo sapiens
<400> 385
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aatgtggaag ggattagtca agaggaatgc atctgtggaa acagttgata ataaaacgtc 190
tgaggatete gag
                                               and the second of the second o
<210> 386
<211> 212
                                                 <212> DNA
<213> Homo sapiens
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gtaacagatg cataataatc ctaatatcca tattgggtac tctttcctcc tttccaaatt 180
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<213> Homo sapiens
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togag
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  <210> 393
  <211> 155
  <212> DNA
  <213> Homo sapiens
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gag
<210> 397
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                                                                                                 and the second of the second o
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ttaatcacat aactgtaacc ttctgtctac tcagggcaaa ctaactttaa gatgaaacct 120
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asagnatgga tttttcattt tttactacat ttgactgtaa atacagacag cttgataata 180
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ataacatatg ctgtggaatt ccccaatctc gag
<210> 398
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<212> DNA
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aaaacaggag ctcgag
                                                                                                                                                                                                                                                                                                                           196
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  aggagettgg tteagatttt ttttaactet aaaaageget ttggtteaaa geagattegt 180
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                                                                                                                                                                                                                                                                  126
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Recognition for the forst forste forste
   <211> 187
   <212> DNA
   <213> Homo sapiens
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 cctcgag
                                                                                                                                                                                                                            187
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482 × 5824

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<211> 194
<211> DNA
<213> Homo sapiens
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La collecta de la collecta de la collecta de la collecta de la collecta de la collecta de la collecta de la co
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 tttaccccta aattetttag tacagattte taaaaaaataa gaacatttte etgtatagtt 180 💮
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aggaggecag getcagaget gagatgtgge etgaacette eetgtatega teetttaatt 180
                                                  ો કે જુજારામાં મેના જુજારા જો છે. કે જો હાર કે મો '203 કર્યું માર્કે જો છે. ક
tagaactgtc aagatgtete gag
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 aggccctcga g
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ପ୍ରତ୍ୟ ଓଡ଼ିଆ ଓଡ଼ିଆ ଅଟି ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ । ଜ୍ୟୁ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ଓଡ଼ିଆ ।
 <213> Homo sapiens
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agttetecce cattattete gag
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         aagcateett etaagacatt etgttggagt teeeteagta etatteetta caactggagt 180
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                                                                                                        ing the street of the second o
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       gagageatty ggtategete aettetgeag gtaettgttt ttttttetea tggeegaaac 180
       tegag
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                                                                                                                               The street of the street was the street of t
                                                                                                                                                                                                                                                                                                                                                                                                                              per a figure in a set entre to the top extent rules
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<213> Homo sapiens

     <400> 517
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        green in green r<del>a</del>lie in this e
   <210> 518
   <211> 213
  <212> DNA - Company of the company o
                                                                                                                                                                                                                                                                                                                                                                                                                      والكوفية والمراب المراب فأواد والمعارض المراب
                                                                                                                                                                                                                                                                                                                                                                                                                                Carlot of the State of
  gaattegegg cegegtegac etececacat teataacact tagatttate aaagtagttt 60
  egeettegga tgaacteage tgetetteea ttgtcaatag caatgettge ttttateact 120
  ctaccaaata actgtttgtt gtttattgcc ctggtacagt tttgtgcaga gtctttatcc 180
 aaaaataaaa taaatgcaac ccctttactc gag
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  <210> 519
  <211> 196
  <212> DNA
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    To the second of 
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 gtggggcaca cattttacct gggtaccaag tactcatcca ttttcaatgc ccagtttacc 480
 aatgtetgtg geaaaceaac cetggetgaa atggggtget atggettggg tgtgaeaccq 540
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<213> Homo sapiens
                               and the property of the proper
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aagtttgtgg atgtcatcca ttctgactcc aatgtctatt attttgttct cagtataatt 240
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tecceccae actegag
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ceteettett tetegag
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 etteatgite atteagatty ceateatete tatetteaag teetateeaa etgiggggga 180
 tgtggccctc tacatggctt tenttecctg tgtggaacca tetetacaga tteetgegga 240
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 tgctccgctc tgttcgttct gcctcttctt gggttgcatg aagcagcgag cttttaccag 240
 cgtgetttge tggecaatge tetgaeeage getetgagge tgeateagag attaceteae 300
 ticcapting geagagingt congressing genting aggacageth ceastaceth 360 ....
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<212> DNA
<213> Homo sapiens
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gaaccygcac actttggcaa agttgcaatg gcctgtttgc ttaggcactg aagtggatga 180
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tteteteece tttettetet ettegeggtt geggegtege agaegetagt gtgageecee 240
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aataaactgg acacggcaat gtggetttet egettgttea cagtttaetg etetgetetg 360
tttgttetge etettettgg gttgcatgaa geageaaget tttaccaacg tgctttgetg 420
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  ttacaaaggt acataccaat caagaactag gcatcacatc caggaactgt gcatacatac 180
  tasatcattc attacagatt tttactttat tgtgaagtat attcaataaa atataagtga 240
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  agetggeage aegggtttgt ttgcaccage atccccacaa acatatgagg aacatgtaca 180
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  tettaccacg gttgcaactt cactcgag

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  <210> 572
  <211> 178
  <212> DNA
                                                                                                                                                     nin kalendar ing Pilipina
  <213> Homo sapiens
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 <211> 172
                                                    ing the company of th
 <212> DNA
 <213> Homo sapiens
                                                                                                                                                          <400> 573
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 gttactttta tttttaattt tttgggggac ggaatettge tetgteacce aggetggagt 120
                                                                                                                                                                                                                                                                         172 ...
 geagtggtge gateteaget eactgeagee tetgeeteet gggtteeteg ag
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                                                                                           and the second s
 <211> 183
 <212> DNA
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gag
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traaaagtgg carcatgtcc tttacgttat tccagtttgc ttttttgtta ctcagcatta 180
tatettggga tacatecatg ttgatgeagg eagetgagge teatttactt tttecceact 240
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gcaaactcga g
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                                                               ŢŤ
<213> Homo sapiens
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   tatcaaagga gggcctaaaa ttaaaaaaaa aaaagaaaca aaaaagttgt gaaacaacaa 180
   caacaacaat acttggcaaa ctcctgacag acttagggag aatattatga tattgaggct 240
   getgttgact aaggeacteg ag-
                                                              The product of the con-
                                                                                                                                           <210> 582
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< 211> 240
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< 213</p>
< 240</p>
< 240</p>
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 aatcacttta atttcattat gtttggttaa tttttcttct tgataaacca gttgtccctc 180
agtatactee agggatteat tecaggagea cetgtgtata ceataattea cacactegag 240
                                                               in the reservoir of the state of the Miller of the property of the state of the sta
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gtgatttott taaatctttt ttatcctatg ctaaatgtat gggttttttg tttgtttgtt 240
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   tagtatagga ctccatttta gcagaatgaa gagtgtttcc cctactgatc tcgag 175
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  caaattgatg aggtgggtca tatttttatt tatttattta tgtttgagac agggtcttgc 180
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etecatttet etgteeetet geetgggeta tgggaagtgg ggatgeagat ggeeaagete 180
ccaccctggg tattcaaaaa cggcacacac aactcgag
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taatttagcc caaaaagtgc cgagaaggag ttgggagtgg actccaatct gttatgaaag 180
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aqttqqtaat tqaaattaqq actcattttt araqtcaqac aatgttaata tttaqqaqqa 180
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qtctcgag
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                                                                                                                                   and the second
                                                                                                                  1.726.4
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teactgoott teeceettte cettttete eteteteect eteetteate ceetettett 240
otcotototo ottootgtgo tectootott contetttet ecacetgeat cetgttecce 300
agccctcgag

    Contact of the contact 
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attgtagttc tgtatatcae catattaaag atgaaaataa aatttaaaac aatagcacaa 180
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tttaatttgc tgttttctaa tttctcaagg tagaagccca gatttttgat ttgagacctt 180
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tttttttttg getteagtge etgtgggeaa atgtaaattt geagetgaat tagcaaacca 180
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gggacgactc gag
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The state of the state of
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ctttatagat tggtgteetg ggtattgeet agetgaeeet teeetaatet teeeegegge 180
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ttattggtgg tttaatttaa atacattttt ttototacag attagtgcaa accagtotgc 180
acagatgega gttatatetg taaaettget tggtattttg gtttaeatae actateatae 240
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<212> DNA
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tataatgata ccacgtagat tccagtactt gttaacagtt tgccatattt gcttcgtctg 180
tgtgtctttt cggaaccatt tgaaaattgt agatatgaca tttcacccca acacccagct 240
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cgag
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<212> DNA
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gactgttatc tcgag
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140
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getamacaca gtamattitgt accaetettt ageceemmat taegtagite temtagetge 180
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<212> DNA
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ttttcgtatt ttcatttgct agettttc:t tgttattttt tgtgagactg aatactetta 180
aaaaggccga gctcgag
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<213> Homo sapiens
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tttcaagttt gittettttg ettatggtat tetaetaatt aatecaccae atetegag 178
<210> 629
<211> 273
                                                                  orden france de la companya de la c
La companya de la co
La companya de la co
<212> DNA
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<400> 629
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attattigtt gttggggctg teetgtgtat tgeagegtee tgggeetttg ceeactagat 180
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<210> 630
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<212> DNA
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<212> DNA
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<212> DNA
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                                                                  211
<210> 634
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catteteace coetecattt tateccattg tgetttecag aaggaacttt etaattgtag 180
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<211> 312
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   tgtctgtgat gttatgattg atcaggtttc aggtgttatc agtttgatta ttcccttgta 180
   cettgteage ttttacecag tgattteagt ggccgttaat ggtcatggce tagatteact 240
   atttcaggaa ggcacgctcg-ag.
   <210> 638
   <211> 254
  <212> DNA
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  attteetttt aaattttttg agacagagee tegetetgte atceaegttg gagtgtggta 180
  gegtgatete agetcactgc aaccectgcc teetgggttt aagcacttet cetgeeteag 240
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  cctcccaact cgag
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  ctcttttttt cccataacat acatgctgct gagtccactc ctcctegag 169
  <210> 640
  <211> 159
 <212> DNA
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                                                                                                                                                                                                         Sec. 19. 20. 20. 186 (19.45)
  <213> Homo sapiens. The West Control of the Control
                                                                        gaattegegg cegegtegae cetaaacegt caattgaatt etageaagga atttgtggge 60
 anacctacta ttttagacac tattaataag actgaattgg cctgtaataa cacagttatt 120
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 <212> DNA
 <213> Homo sapiens
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 ctgcctctga gcatttgcat gtgctgttcc ctctacttgg aatactcttc cctcttttt 180
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 taacactcat cctcgag
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 gtagttetta tgettgtatt gaagttatta atgatgaact tggagattgg caegggaata 180
agaangaggg ttggcagaga tgttgagaag gttgaattga caggcagtgg ctgtctggat 240
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<213> Homo sapiens
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<210> 647
<211> 201
<212> DNA
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<213> Homo sapiens
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 aatatgaggt caactctcga g
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                         <211> 216
                                                    <212> DNA
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gacattgatt tagaggaaat tcacagtcat tarrgettta aatatttett tetgtteeet 180
cttctcctgg ttttcctgtt acatgtacac ctcgag
                                     to the property of the second 
<210> 650
<211> 157
<212> DNA
                                rapid de Maria de la compete de la compe
<213> Homo sapiens
<400> 650
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cagetgtata atgeageage tgtteaatee ettaceette tetgeaagga etteettaca 120
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                                    <210> 652
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<400> 652
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tctccctata
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<212> DNA
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 teacagatge catecetaat gaegtaeteg ag
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<212> DNA <213> Homo sapiens <400> 660
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gatecettig aaagteagaa etggittigi itaggagtat titatgiati igatiittat 180
tettaactat teeettätga tggtagetgt tettteagea aacagttatt ttgtgeetat 240
tgegtgeete gag.
                                                             253
<210> 661
<211> 283
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tattaagatt agatetgget ttagattgaa gegtacatat tttateatgt taaagtatte 180
agotgotact gottottaa agottotgot tigottogot tolgottott gettettet 240
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<213> Homo sapiens
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<400> 663

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cgtgttattt tgctttgttg tattattgtg gtgtataatt ttttttgaga cggggtcttg 180
ctetgtegee caggetggag tgeagtggeg egatetetge teactgeaag etecaeatet 240
cgag
<210> 664
<211> 193
<212> DINA
<213> Homo sapiens
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cagtatecte gag
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<211> 329
<212> DNA
<213> Homo sapiens
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atacagatte cagegataat gacteagtee agettagaaa ttetgetgag tetgttteag 180
aagatgatac aactgaatca cagaattatt ttggctcatt gagaaaaaat aaaggaagtg 240
gcacatggga ggaaaagccc aaatcacatg aagctatcca agctctgaat acatgggaag 300
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<212> DNA
<213> Homo sapiens
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cagcatteca aagacccctt ctctgttacc tctccctcct tctccaagcc acactccttt 180
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<211> 129
<212> DNA
<213> Homo sapiens
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129 . . . . . .
  acactcgag
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  <211> 251
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  <212> DNA .
  <213> Homo sapiens
  <400> 669
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 geotectect cotteccegtt contracce coaccegga cocetttece catecegget 120
  cegteaceet ecegteecee acacteagga caagaatgee etgeeeggaa caaceeagca 180
  gegectagat ggetttggte aeggteeage ggteacetae coccageace aecteeagee 240
 cgcaactcga g
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  <211> 175
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 gteetateaa aacttgggtt tgetgtttet gatgetatta ttgtetetge tegag 175
gaattegegg eegegtegae ettgeetgge aggagtgget tetaagaaga getgttgatt 60
 gttgaacttt gacgctaagg tgagggtttg gattttttgg ggatagcttt attttggtat 120
 aattttagaa aagtttgaga atagtacacg agtteetatt taccetteac etagagteac 180
 gatgatttgc gttttgcccc atttactcga g
                                                                                                                                                                                                  211
<210> 672
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<213> Homo sapiens
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tatgetatte aaagtacete tattttaatg gagttttggg acetateaaa tataaatata 180
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296
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<211> 176
<212> DNA
<213> Homo sapiens
                                                       The state of the s
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aaagetteaa gatgttagee tttatetgtt eeatatetag ettaettggt tgtttttggg 120 🐇
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<211> 137
<212> DNA
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<213> Homo sapiens
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<400> 675
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cttctgtttg ctaatttcta cttttagtta tttattttt aaattaaatg tcatatgggc 180
ttattattgg gatagcctcg ag
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<212> DNA
<213> Homo sapiens
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aaatgtteet gagaaagate tteatggaag actttttate aaccgtattt tteatateag 180
                                                               <sub>.</sub> 227
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ccaggeatta acgaacattg aagataaaac tggattgtgg tatctgaacg ggaactattt 180
ggttctgttg gtgtcattgg tggtcattct tcctttgtcg ctgtttagaa atttaggata 240
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ttgcaagaaa tttcaggttc cgtgtcctgt ggaagctgct ttgataatta acgaaacaat 360
anacaccacc transacage cancagetet tgtacetget ttgtcacata aegtgactga 420
asatgactct tgcagacctc actattttat tttcaactca cagactgtct atgctgtgcc 480
aattetgate ttttcatttg tetgteatee tgetgttett cecatetatg aagaactgaa 540
aaaccgcagc ctcgag
                                                                  556
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<211> 196
<212> DNA
<213> Homo sapiens
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acagttgaga tatagaatat taccccagaa agttccctgt accttttagt gattctcttc 180
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tccccacgt ctcgag
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<213> Homo sapiens
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 ccaactagea getecteagt tatematteg tggcccatet cattteacet getettattt 180
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 <210> 680
 <211> 113
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> unsure
 <222> (104)
 <400> 680
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 <211> 196
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aatgacetge etegag
<210> 682
<211> 226
<212> DNA
<213> Homo sapiens
                       and the gift of the graph of the properties of the second 
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aategataat cacattgtga gecatatgaa gtcatattct tacagatace tcataaatag 180
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<210> 683
<211> 196
<212> DNA
<213> Homo sapiens
                                                                                                                                 A SECTION OF THE SECTION
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attacatacc ttaataatta caactcaatt gaggggtcca tatatattct ttctcatttt 120
ctggcagtaa atcatattca tcatatactt cccaattttg cacacacaa aaatgaaaat 180
agccccctat ctcgag
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aaaaggaaac actcgag
                                                                   197
                                                                Ť
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gtggttatag caaagtatac actagaataa tttgagttgt ttgagatgga tacaggtatc 180
totttttta aattagtagg tacaaacaaa gaacttgaaa accacatect tttagattet 240
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casa
<210> 688
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<212> DNA
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teaageetce egaagtgetg ggattgeaga etegag
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<210> 689
<211> 329
<212> DNA
<213> Homo sapiens
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gcccccaagg aggaatggtg ggacaaatgg gtgcacccca gagtaagttt ggcctgccgc 180
```

```
angetengen geoccagtgg ageetetene agatganten gengatgget ggentgagta 240
 tragtagtgr aacceptact graggetttg groupcoste cagracaaca graggatggt 300
 ctggaagete atcaggteat tetetegag
                                                                                 . . .
 <210> 690
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 tggettactg ettectggge teaagetgtt etcecattte agesteecea tgeaceacee 180
                                                                        191
tcatgctcga g
<210> 691
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<213> Homo sapiens
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actitionth geneatggat treteetggg gaattitett ggetgttetg gaaatgettt 120
cccacagetg ggtaactgtt ctaaatgget ttgataatge teacaccete gag
                                                                        173
<210> 692
<211> 349
                             o en la participat de la capación d
La capación de la ca
La capación de la cap
<212> DNA
<213> Homo sapiens
<400> 692
gaatrogog cogogtogac gtgatttata atgacatoot gagaaaagto agtgaaacto 60
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gatattaact tggtgttatt tcatttttt tttttaagga gtcattctac cctgttctat 180
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atgtcaactt ttaaatacac atgtttaaat aacttagagt gtaataaatt gtgtttaata 300
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<213> Homo sapiens
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                                                                                 and the state of
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aaccacacce tigcaaagci tigtacteeg caccecagai gateteeagg cageteagai 180 💮
ctettteetg cetttgeeet geactgitee ceggtactic etectitati giageactea 240
getecceage caatetgtee ategteeteg ag
<210> 694
<211> 212
<212> DNA
<213> Homo sapiens
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 <212> DNA
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 <211> 194
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 <213> Homo sapiens
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tectaggage gtggetgtet ceteageaet caegagtgtg tggtgtagta gggggegggg 180
gtatggaact cgag
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<211> 196
<212> DNA
<213> Homo sapiens
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tgtccctact ctcgag
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<211> 212
<212> DNA
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tttatgaact aattttagaa tgctctacta ctggaaatat ttattctttc aacactacat 180
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                                                                212
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atgitatoto coacaactit gaactigott attageteta acagitatit tgtagattet 180
teagggtttt cttctacaca taggattatg ttacctgttt tttgtttttt tgtttttgtt 240
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<210> 700
<211> 124
<212> DNA
<213> Homo sapiens
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<211> 214
<212> DNA
<213> Homo sapiens
                        and the second second
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getagactgt acttateaat ttgtteacta etgttetatg getatetetg gaagaccett 180 -
taggtacaat aaggaagatg ggagagtact cgag
                                                            214
<210> 702
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<213> Homo sapiens
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                                                           286
<210> 703
<211> 158
<212> DNA
<213> Homo sapiens
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                             الهمان والرائب والمفافع والمائي المائي والمائي والمرازي
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aggaggccag aaagttgttt tcaaacctaa gcggtatagc cgagaccatg tggtggaagg 120
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ccctgagtat atcaagtact tcaatgataa aaccattgat gaggaactag aacgggacaa 180
gagggteact tggattgtgg agttetttge caattggtet aatgactgee aateatttge 240
coctatetat getgacetet ceettamata cametgiaca gggetamatt tigggamggt 300
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caagcaacto cotaccotga teotgttoca aggtggcaag gaggcaatgo ggcggccaca 420
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gattgacaat aaactcgag
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<211> 192
<212> DNA
<213> Homo sapiens
           <400> 705
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<212> DNA
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tggattetgt gecegtgaec tegag
<210> 707
<211> 279
<212> DNA
<213> Homo sapiens
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tragegaagt tggccctttc cattccagct gaaaaatttg aaaacatgaa gagctcatta 180
tcaaatgaag tgaatgagaa agcaaaaaaa ttagtagaaa tggaaagaga acatgaaaaa 240
tcacttagtg aaattagaca gttaaanaga gaactcgag
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<210> 708
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<212> DNA
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teaacaggac tgtccgtgct atetccacca gcagggcccc gcggagctcc ccccgctgcc 180
coctaccace cetteactea acaageeaat etgaceecag ttetegag
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<211> 189
<212> DNA
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                                                                   189
caactcgag
<210> 710
<211> 293
<212> DNA
<213> Homo sapiens
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tettgtegga ggteeetgaa agtgaattaa etttggatet ettaggtate tgtgtttgga 240
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                                     ighter in the
<212> DNA
                                      to the second
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ggatctgggc ttctggagag tattgctgtt gatcttcgtc attgctttgc tgtctcttgg 180
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ggttagggct gaagttattc tcattaatat tcatcattag tggtatcttg tttcatttac 180
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  acattgtatg caaacctgtt ccattettte ttegtggaea acceatteea aaaagaatge 180
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 cactgaggag gagetgageg aggeaaagga tttettgaag gaaagtteta aggtggtasa 240
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 cgag
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                                                        The second of the contract that the second of the second o
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 tgtctgtttg caatatgggg gttagacttt ttttatcatt accttttctt ttccttggct 180
 gtacatttac ctttttcaca aaractgtaa getgteetge teettgeagg actacaggge 240
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 geetgeagee accaeteeae teegeeggge acceeteace acaeaeeeag tgggtgeeat 240
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 totcaacaga atgatcagca gootcoccat agaggocaac aagtaccgcg tggccctggc 240
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  ctatggeege teggeactee titgtggett geteatagat tagetgttet atcagaggeg 240
  cagettgete tgaetegag 259 -
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  <213> Homo sapiens
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 cacagageae atcetgtttg aatgeeecat ttgaatcaca gestatteet etttttgagt 180
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tegaaacee ggteaceett ggggeeagtt tgteeaggea tteetetgge tecateaete 180 👙
ccagecegae eeegtettee gggetteeeg geeggaeeag gegggeettg cacacetega 240
                                                                                                                         241
                                            en flys ei von faton ein blei bei ein
Geboort ein der ein ein ein der
Geboort gefage fin etwo
<210> 736'
<211> 465
<212> DNA
<213> Homo sapiens
                   and Francisco de Carlos de Car
Carlos de Carlos de
<400> 736
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gagatugugu ttugugugaag gaggaagaaa gaaagcaagt ataaaaggga aagatugagu 360
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ctatatetgt gttteagatt teatetttta geaettggtt taegagttae tgtgetaaet 180
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Contact of the State of the Contact 
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  tgttggggac ctgcttgttg ggaggacccg gtttctccga gcttcatcta cctgtggact 180
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  tgactccagg cagcetcaca actactacag teacegagta gagaatgtgg etteateete 300
  cygececaty egetygtyge agteceagaa tyatytyaac cetytetete tyeagetyya 360
  cctggacagg agattccagc ttcaagaagt catgatggag ttccaggggc ccatgcccgc 420
  eggeatggtg attgageget ceteagactt eggtaagace gggggagtgt accagtacet 480
  ggetgeggae tgeaceteca ectteceteg ggteegeeag ggteggeete agagetggea 540
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 catatotaaa otaacaaaag tacagaaaaa tgtgatataa cagattttaa aaaggtacgo 360
                                                                                                                                                                                 367
 actedad
                                                                     A STATE OF THE STA
                                                                                                                                                                         organis (la filancia di Selendia ), qual escendia de la composició (la composició de la composició de la compo
                                                              and the second control of the second control of the second control of the second control of the second control
The second control of the second control of the second control of the second control of the second control of
The second control of the second control of the second control of the second control of the second control of
 <210> 744
 <211> 655
                                                                                                                                                        Charle of the following the transpose
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                                                                                                                                                                                                                                                     Both Buckey
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 egtgtattgt ggteteaaga ettgeeccaa attaacetgt geetteecag tetetgttee 540
 agatteetge tgeegggtat geagaggaga tggagaactg teatgggaac attetgatgg 600
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                                                                             Length More and
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                                                                                                      1. 100% ( )
<211> 268
<212> DNA
<213> Homo sapiens
                                                           and a comment of the second of the second of the contract of the second 
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taaataaact gtataatatg tattattgat totgttattt tatttttcct agcaatgcac 240
agggaaccag taaatttcac aagcagagaa tactaacttg tcatttattt aatattctaa 300
acaaatgaag cogcetetat aagtgaattt tetggaette taaagatgag cattgttgag 360
tttaataact caaattttta ttgtgttaag taaagtatat taaatataac ctcaccctaa 420
tgactcagct gtaattaaaa aagaattcac gaccagcctg ggtaacacgg tgagacccca 480
tototacaaa aataaaaaat aaaaatgaaa attaaaaaaa attagccagg catggtggca 540
tatacccaag tactctgaag gccgagggtg gaggattgct caaacctagg agtccaaggc 600
tgtagtgacc tgtgatagtg ccactgtact ccagcctggg aaacagagca agaccctgtc 660
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 <213> Homo sapiens .
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 <222> (230)
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 cacettgggt tttccaetga aacttcaaaa agatggttca tgctttagaa gtaaagattg 180
 agtitaaatt aaggacagaa aaatattgat tggatttgcc tittigaccn actcaggaac 240
 aatttcgggt taggaatggg tatgggagag agagagaaga gcaggctaac gaaatagcaa 300
 acaactottg agagagtetg tigtalggag aaalagggtt glatilggat ggggaagtil 360
 tgtttcttag gatggaagac actagagcaa gtctgttttt tggttttttt ttgagatgga 420
                                                                                                                             466
 gttttgcttt gttgcccagg ctggtgtgca gtggtgcaat ctcgag
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 <213> Homo sapiens
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tggaagaaat attaagtggg acaattacac taaaaatatg caaagtatac attttaagta 180 -
ttttatgttc cagaacagct gccacatgtg atactataat caatctaata gaaataaaag 240
tecacetett ettagaacat aggtteteca etggaggcag ttttgetece cagggggatg 300
ttgacaatgt ctggacacat ttttggtttt cacagegggg ggagagaggg actgtgtgec 360 🐃
attggcetet agtggataga ggeeggggat gttgetaaac atcetacaat geagagaate 420
acceaetgae gacaatgaat ttttetgtee aaaaegttaa eagtaccaag attttggaae 480
cctaccttaa gagtatacat aaggtaatgc ttttctaaaa ggtctgtgtt agagttgcat 540
atgtatecag caacatgtga geeetaggac agggetttge ceataatace eceteacteg 600
<210> 751
                            10 St. 10 P. 10 P. 10 P. 10
                            1996年,1986年1月1日 - 1987年1日 1987年1月1日 - 1987年1日 1月1日 - 1987年1日 - 1987年1日
<211> 353
                       <212> DNA
<213> Homo sapiens
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agttgatect gettteatte attggetget taggaggtga gettetetta caaggeeetg 180 -
tatttatcaa agaacccage aacagcattt tccctgttgg ttcagaagat aaaaaaataa 240
ctttgcattg tgaagcaaga ggcaatccat cacctcatta cagatggcag ctgaatggaa 300
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<211> 265
<212> DNA
<213> Homo sapiens
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<400> 752

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 aaaataacat aatattgact gtttaaagag aactctgttt tcaagcctgt aaaactaatt 180
 gatataattt totacotaga atttagatat tatgaaattt ttttttgtta ttgtttttt 240
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 tggtgaaaag ccactgtcat catcatttac catcgtcatt ctccatccca gccatccacc 180
 cacceacege cagegtgete treetetgtg accgatgtet ceegtgtage catgaacetg 240
 catgeteagg atgeagaega eggtttggga agagggtgeg tgaetgeegt gtgggaetge 300
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 cattlecter titeccattt gaccatgica gitateacca tectacaega etgeteactt 420
 catttaaaaa aacccagttt gcttttttt aaacctttta tgtattctaa gtgatagaag 480
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asattgtgct atgtttccaa ctaagatcat cttgaatctc accetcgag
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<211> 360
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<212> DNA
<213> Homo sapiens
<400> 754
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ataatagcta taatttactc acatcttatc taaaacacaa attcagggta atttatgagc 180
aagteatttt ceggtggget ttegatagtg tgtgaatttg gaatgaatge tggtaettee 240
agetecette cacetgeage accaggaage cattgttgtg gggaggeeae caacttgget 300
ggcatgttgc ttctgcctca gttagtgatg atggtgattt ggagagaaag gacactcgag 360
<210> 755
<211> 536
<212> DNA
<213> Homo sapiens
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ctgccattgg tttagcagct ttaaatgtga taactattct gaattccgat tggttggaat 180
tettatggga ctagetgttt ataacagcat cacettggat attegtttee etceetgetg 240
ttacaagaaa ttattgagee eteecateat teetagtgat caaaatatac cagtaggeat 300
ctgcaatgtt accgtggacg acttatgtca aattatgcct gagttggccc atggattaag 360
tgaactetta teacatgaag geaatgtega agaagattte gatteaacat tteaggtttt 420
tcaagaagaa tttggaacaa tcaagtccta taatttaaag cccggtggtg ataaaatttc 480
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<210> 756
<211> 388
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (192)
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and the second second second second
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  ggcaccaccc gtggtggggg gaagatgtcc ccctacacca actgctatgc ccagcgctac 120
   taccccatgo cagaagagoo ottotgoaca gaactcaacg otgaggagoa ggocotgaaq 180
  gagaaggaag gngaagggaa gctggaccca gctgacccac gccgaaaagg tggccttgta 240
  ccggetceag ttcaatgaga cetttgegga gatgaaccgt cgctccaatg agtggaagac 300
  agtgatgggt tgtgtcttct tcttcattgg attcgcagct ctggtgattt ggtggcagcg 360
  ggtetaegta tttcctccaa agetegag
                                                                                                                            388
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  <211> 259
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  <213> Hômo sapiens
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  acctagaget gttgeteteg gagataaget etgggaaaae ttatettagt accteatget 180
  attitionaa cagtacatti attitigeen geigntaeee tietgigngg ngitgnatti 240
  gaagaçcact gggctcgag
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  <211> 258
                                           and the second of the second o
  <212> DNA
  <213> Homo sapiens
 <400> 758
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 ttgatatata tgtatactct tgaaaccacc accacagtta aaataatgaa aatgtccatt 180
 acctecagaa gtttetteat gttttgttgt aateteteet teteeteeet gatteeteee 240 ···
                                                                                                                         258
 catccccagg cactcgag
 <213> Homo sapiens
                                                                                                           Colored Charles of the Colored
 <400> 759
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 <210> 760
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gaccaaagtt gtggtttgta tggagtgtag tagtagtgga ctcgag
<210> 761
<211> 208
<212> DNA
<213> Homo sapiens
<400> 761
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 tttactcaag aagacttttt cttggggtat taaaatgact gtatttgcaa tgattattgg 180
 agectttgta getgecaget ceetegag
                                                                    208
 <210> 762
 <211> 289
 <212> DNA
 <213> Homo sapiens
 <400> 762
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 actitagetg gaactitita taatiteaga ggggitatig aactgactgt tggcattgga 180
 tataagaatt tggcttcagg catttgctat tgaggtttta aaaatgttta aatatcttac 240
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 <210> 763
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 <212> DNA
 <213> Homo sapiens
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aaataagtgg gtacctttat tatgattaag aaagtaattg actatttggt aggatttcat 180
acagaattat tgataagcac gctcgag
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<210> 764
<211> 358
<212> DNA
<213> Homo sapiens
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agaccaeatt aggataacac tacaagaaaa taaattgttt tatctggttg tggtgctttg 180
gggatagtta attgactact canataacaa ctttgatagt atatgaactg tgactgtgtt 240
agtaggtttt aattagcagg aactttttgt aaattggaca aaaacttttt ttattatgac 300
taggaaaact getgttttet atttttgttt tgetetttta aataataceg aactegag 358
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<211> 178
<212> DNA
<213> Homo sapiens
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acacattttt agaaagtatt cgtttccgta taggatgatt gtatgggtct ttctcgag 178
<210> 766
<211> 103
<212> DNA
<213> Homo sapiens
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<210> 767
<211> 407
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<212> DNA
<213> Homo sapiens
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caaaaaacaa aaccaaaaca aaagaggtgc aggccagaat tgtccccgtg gacatagttg 180
gteaattaga ttgcatactt taatccagcc tcagttggtg tgtctgggtt ttctggctag 240
gaagaatget getgtggaat gtgetggaac agateettae gtgegetgtg ttggagtett 300%
tecaggicag gggtteteaa acggáttica ggaceettia cateatecag aatgatecaa 360
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<210> 768
<211> 268
<212> DNA
<213> Homo sapiens
<400> 768
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tcataactct cagtttattg atgattattc atcctcagat gagagtttat ccgtcagcca 180
cttcagtttc tctaaacaga gccacagacc aagaactata agagacagaa ctagttttc 240
ttcaaaattg cctagccata aactcgag
                                                                 268
<210> 769
<211> 372
<212> DMA
<213> Homo sapiens
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cettttatat gtatgaatat tteatagttt tgeatateag atgtaggeat acagacaaat 120
acataaacca atgaatatat tacatattet gtgttecaat aaaactttat ttatggacac 180
taanatttga atttcataaa attttcccat gtcaagaata caanatactt gagttttgtt 240
tttagctatt taataatagg tctcatttat tccacaggct gtagtttgta gtcttgcttg 300
asacsataga ascagactga ttaagcagga gaagtttttt gasagaattt tgtttggctc 360 🐇
agcaatctcg ag
<210> 770
<211> 126
<212> DNA
<213> Homo sapiens
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agtaataaaa gtacctttta taagcaatgt tgtgtggctt gtagaagaaa gcagggagga 120
                                           The same of the same of the same of the
<210> 771
<211> 311
<212> DNA
<213> Homo sapiens
<400> 771
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gccccagttt tcataagact gctgtgaaga tgtttgatat aaaggcttgg gctgagtatg 180
ttgtggaatg ggctgcaaag gaccctatg gcttccttac aaccgttatt ttggccctta 240
ctccactgtt cctagcaagt gctgtactgt cttggaaatt ggccaagatg attgaggccg 300
ggaaactcga g
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<210> 772
 <211> 185
 <212> DNA
 <213> Homo sapiens
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 tttggtcata tactgtttac acaattgcca attcttgcca aatttgtgtt tgtgcatttt 120
 attitectee titaatgtae tgetetgeaa ttatgettgt aaaatgtitt teetgtteae 180
 <210> 773
 <211> 262
 <212> DNA
<213> Homo sapiens
 <400> 773
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 agtatettga gtgeaaataa geaggaagae tgteetteaa aaaatgtggg gttaeatgat 120
 tttcagagee tttttttcag agttgageat ettttettt aaaagaaata aggggeaaga 180
ggaccaattt tattoottga ggaaaaatga cacaccette teecaaaaga aagaaaacte 240
tetggecece eccetteteg ag
                                                                   262
<210> 774
<211> 430
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<212> DNA
<213> Homo sapiens
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gcagcaacct cagtcccccc agagactett ggccgtgatc ctgtggtttc agetggcgct 180
gtgettegge cetgeacage teacgggegg gttegatgae etteaagtgt gtgetgaece 240
eggratteee gagaatgget teaggaceee cageggaggg gttttetttg aaggetetgt 300
agcccgattt cactgccaag acggattcaa gctgaagggc gctacaaaga gactgtgttt 360
gaagcattit aatggaaccc taggetggat eccaagtgat aattecatet gigtgeaaga 420
agatetegag
                                                                   430
<210> 775
<211> 223
<212> DNA
<213> Homo sapiens
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aaaaaacgta aagggtatte gagatgacat tgaagaggaa gatgaccaag aagettattt 120
tegatacatg gcagaaaacc caactgetgg tgtggttcag gaggaagagg aagacaatct 180
agaatatgat agtgacggaa atccaattgc agttctccct ata
<210> 776
<211> 243
<212> DNA
<213> Homo sapiens
<400> 776
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tttgtcgtca ttgcagagtt catctttctg gttttgagca ccatctcaca cagttctttg 180
tetititeca gielgetgit gaetgggita geteageeeg aaaggigeee eeacteeete 240
gag
                                                                  243
```

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<210> 777
  <211> 249
                                                                                . . . . .
  <212> DNA
  <213> Homo sapiens
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 gagcagacag gatggcatca cagagtgtgc catggtgggg taggagggcg gccaacaggg 180
 acagaggagg steetetgee agggagagaa acagagggaa tttgggggaa accagttgea 240
 gatctcgag
                                                                                                                              249
 <210> 778
 <211> 287
 <212> DNA
 <213> Homo sapiens
 <400> 778
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 taatcttate tgeetgeatg gacceagaaa taaatcagag tacageecca cetgggeeac 180
 tatetatagg acaaaccagt cettecacet geattteact etetecaacc cagggacttt 240
 gttttetttt aactttatt tttggttggt tcaggggtat actcgag 287
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 <211> 314
 <212> DNA .
 <213> Homo sapiens
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 tgaagatgca ctctaatgtt tttttccaga agctctgtag gtttagcttt tacctttctg 180
 ggtttgtttt gttttgtttt tttgagatgg agtcccactc gtgtcaccca ggctggagta 240
 caatggtgca atcteggtte actgeaacct ccaecteccg ggttcaagca attecectgt 300
 ctccacctct, cgag
                                                                                        and the second of the second o
<210> 780
 <211> 502
 <212> DNA
<213> Homo sapiens
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ggcgcctcct cotggattca ttcactcgct cttttcattc acgaaggtag tgaggcctag 120
tggaaagcca tggagagege teteceegee geeggettee tgtaetgggt eggegegge 180
accytygeet acctageest gegtattteg tactegetet teacygeest cogygtetyg 240
ggagtgggga atgaggeggg ggteggeeeg gggeteggag agtgggeagt tgteaeaggt 300
agtactgatg gaattggaaa atcatatgca gaagagttag caaagcatgg aatgaaggtt 360
gtcottatca gcagatcaaa ggataaactt gaccaggttt ccagtgaaat aaaagaaaaa 420
ttcaaagtgg agacaagaac cattgetgtt gactttgcat cagaagatat ttatgataaa 480
attaaaacag geactacteg ag
                                                                                                                              502
<210> 781
<211> 217
<212> DNA
<213> Homo sapiens
<400> 781
gaattoggoo aaagaggoot agagagagag agagagotat taataasaca gaggagtaca 60
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ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat accaacattc 120
 agteaaatcc caaagccaaa tggataattt cagatggaat ggagttagac aggaactggc 180
 ttccctttct cctgttacta tgaggacaac cctcgag
 <210> 782
 <211> 219
 <212> DNA
 <213> Homo sapiens
 <400> 782
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 ccactgaact gtacagttaa aaatggttaa catggcaaac ttatatctat tttgccacaa 180
 ttaacaacaa caaaaaaagc atgggctatt agactcgag
<210> 783
<211> 257
<212> DNA
<213> Homo sapiens
<400> 783
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eggeatgagt agcetatgea acetttagag caaggeggte geggettege ateceaacat 120
gggcactgta tgatgtcccg catcaggctt tcttatgtct gcctggagac cctaattatg 180
ggcggcataa titgiccitg acggtotcat geatittictg ggctgaatat ccggcaagca 240
ccagggttta gctcgag
                                                                   257
<210> 784
                                                                Ť
<213> 218
<212> DNA
<213> Homo sapiens
<400> 784
gaatteggee aaagaggeet attggaaaat agetgtgetg teagettttt gaggggggg 60
tttgttttgg tcagtcagtt ttatcataaa tttggcattt gggttaaaac agcaacatgg 120
aacaaataat tittagatgi iggaaattoo tggittitti igtitigitt tgttitgitt 180
ttttgagaca gcgtctttgt cacctgggcg ttctcgag
<210> 785
<211> 197
<212> DNA
<213> Homo sapiens
<400> 785
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tatotacctc tagotecatt gaacatotto ettotgttaa gtgatageca taagttotta 120
gtagcgaaat tattggatca aagagtagga caatttttat ggcactttta atgtgtgttt 180
tcaggcattg cctcgag
<210> 786
<211> 125
<212> DNA
<213> Homo sapiens
<400> 786
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tttcagatta ggcaaacagt ttggttgatt ctgtgatgta tgtaaaggtt ggaagggetc 120
<210> 787
<211> 204
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getegeatga catgeeacca tteetggeta gtttttgtat ettttetaga gacagaeteg 420
                                                                    and was a sign than the control of the control of the sign and the control of the
ag
<210> 800
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<210> 801

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ctacaacagg ttgcaggaca aataatgtat tttaatcttt gggggagtct ttgtgtaagt 180 🚞
cagacettat teathteat tecaacaace etegag 216 2210> 808 2211> 705
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                                                                                                                                                                                        668
ccctcgag
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<211> 344
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Companya de la compa
<212> DNA
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gtgaaacttc atcaaaaatt aataatcacc aagcaggact cgag
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<213> Homo sapiens
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La companie de la co
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cagtestett coaggittigs atgetteagt colettotig gittigeatge theagaggif 300
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ctacaaactg tiggatattg aaaaccitgc atttactigt gaattgccag tctgtgtttg 180
                                                                     191
cgtcactcga g
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                                                    ing a comment of a particle of the file
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Tanah tahun da Santa Maria da 1995.
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ctcaaa

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gaggattttt tgaaacageg tgaatactge teettegeat ttetgagaga gggcagaacc 180
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  <211> 235
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  ggagactagc aggtgtcaaa gagaggcggt aaagctcatg atacctgatg taatcagtgc 180
  cotoctocto otggoogoag caggatgoot toocttoaat gactoccaac togag
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 <211> 256
 <212> DNA
 <213> Homo sapiens
                                                            in the control of the
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 taccagtage tectettace aagaggttet atggagaatg tggetteeea gaaatattga 180
 tgtcccatcg tataggggtt tttctaaagg agacccact ttcaccaccc acaaccatat 240
 accccegaca etegag
                                                                                                                                                                                                                   256
 <210> 865
 <211> 265
 <212> DNA
<213> Homo sapiens
<400> 865
                                                                 أردكر فارعا لهذار الجينان والمراث
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tcctgttatt caaggaatga agtacaacca ctttagccca gtgctcaagg ttatactttc 120
ettactotgt accaattoto tagtotoaco ategoagget gootgoggoo otoagacora 180
tracatgrat tectgerra gegteteret tetgtgraar acetgteett etectgerae 240
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<212> DNA
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gttaagaaat actataaata tgactcttat gagaagactt tgttgctctg tagtgtttct 180
gaatactgta titgttggat tgatcaaggc tatttttcaa aaagctctct gcttcctgtt 240
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gttgctctct ttcattcaca cactctcagt ttctcatatt tgtagctcat tgctcgag 178
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<213> Homo sapiens
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aataataata ggaagagtag tgactttttg tctttgtgta tcaattcatt caacaaattt 180

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tgggtgtgggg caccttgatg gatgggacca cagtatgaag gctgtagtaa tccagcatga 180
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<211> 239
<212> DNA
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ttttagcttt gtcgatggtg ttctgttgta aattttggtg cacgtttaat gtgaacaatg 180
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<212> DNA
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  attgctctga tgatgggaag ggaaggttgg gccctcgag
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  <212> DNA
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 agtagatgta catatecaaa ttgteecaaa catgettaaa atttttecag tatgtatgtt 180
 gttttaaaat atttatattt tigtigtigt igtigtigtt tittlaagatg gattitiget 240
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                                                                                                                                        † 257
 <210> 885
 <211> 141
 <212> DNA
 <213> Homo sapiens

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gaattegegg cegegtegae gtetetetet gagetetatt tgetteagtg caacatgaag 60
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ctccacccca gacaactcga g
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ccagaageca ttcatctgcc atcgcaagac caaaggaggg gatttgatgt tggtccacta 180
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 ttotcotcot coretegett etgetteteg tecaggetge tgegettget ecteaegttt 180
 tgcaegttet tecteetete tagetttttg tgeggeaage teageftgte tetgtegete 240
gag
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caggoggada gaatttoacc acaaacttaa caacaacgtg ctttggcctt ctaatctgtt 180
tcacaatggg ttttaggaga tccagccaca ccgtgatctt tttgtgatca ggaaactcga 240
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tttacctggg ccagcatgcc atggaatgcc atcaccggat agaggaacgt agccagccag 180
tcaaattgga gagcacaagg accactgtga gaactggcct ggacctcaaa gccaacaaaa 240
cetttgeeta teacaaagat atgeetttaa tatttattgg aggtgtgeet eggagtggaa 300
ccacacteat gagggccatg etggacgcac atectgacat tegetgtgga gaggaaacca 360
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<212> DNA
<213> Homo sapiens
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 actteacage atgreagga aaateactgt cacacaatte caatggattt tgtgetettt 180
 ttgaaaaaa aaaattotti agogtaaaca tgaattttt ttcaatgtag cccctgggga 240 🔅
 atgaatgaaa ttttgagett etteaataeg taaaattaaa tttataccae tgagggagag 300
 accettetg aaagaagtat ggecaaaage actttaatge tgetgacatt gttgttttta 360
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ggaggeetet geegteetgg etgtgteete aggatggeea atteteacag aaaccaecae 180
                                                               208
aaggaaagat ctcctgggac gactcgag
<210> 894
<211> 479
<212> DNA
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ttcatatttt aaataaagcc acagtcattt atacaaaaga aaagcatctg tccctgggca 180
aatettttga ggacagaggt caaagtaaac tgcataaggt ttttacatca tttctgtatg 240
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gatcattgag aaagtgtttg aaactttctc atgaagtgta tatataatgg cgtgaaaaat 360
tootttggaa aaatttatgt tootttoatt tttaccamat tgcaaatttt cagcatggat 420
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cctggaggaa gatttggatg agtatgtatt ttttatattg aaacagacat gaatatattt 300
tggagatgaa agtaaaacta gcaggaatgt taagaaaaaa cttaaaattg ctttaaagta 360
taatgtcgaa tcccccgaat ctcgag 386
                                                            5 53 J. O. S.
<210> 896
<211> 202
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (40)..(41)
<220>
<221> unsure
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aagcetgtgt tetttetget gtattatget tetetataac aaccaggeta atatatetta 180
aataccatcg tacactcgag .
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<212> DNA
<213> Homo sapiens
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186
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eactacactt tatetteect aagggtttee tgeteeteet ggtettaggt gaggteattt 180
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ttaaatatct ttaattttat aagetteett atgacagtte ttatecactg tattettteg 180
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<210> 904
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<212> DNA
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agcaagccga ctcgag
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<211> 259
                 The said to great a second service of the second
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<211> 392
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  gtggacattt cagecttgaa ggcagtggtg cagettgetg agccatacet ctgtgaatet 420
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 <211> 185
  <212> DNA
                                                                                                                                    ing the area of a section
  <213> Homo sapiens
                                                                                                                                                              and the second of the second o
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 aaaaaatgca gatggtttca aacatctcct ttttcgccat gtttgttatg tacttcttga 120
 ctgccatttt tggctacttg acattctatg acaacgtgca gtccgacctc cttcacaaac 180
                                                                  The state of the control of the cont
 <210> 916
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 <213> Homo sapiens
<400> 916
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tigatitgta titgecaaca agcectitig citgitaaag ciatagetaa cicteaggag 180
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catcatttcc acgttttcca catccgggag gaagcctgga ctgtgcagcc ttcgggcacc 360
cggcacagac actgtgctgg caggagcttc agacacgcca agtggatgga tttggattga 420
acgcatatga aacaggagac gggttctcat gtgagatcaa agctcctcca aagcctgttc 480
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                                                                                                          1 45 37 1 14
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cagtacggat cgaacagatg etgagettge cegeegaggt cageagegac aacttggagt 240
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cagagggece egeaceteta eegacgeggg agecagagea agageagtet eeggggaeet 360
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teegtgaage cetegag
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  attiticata graticacci tactiacci: titaatgeca giggggtitg caatgatagi 120
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 agtateteat caagteaaat aageacagag taagaattte aaagetagag agggetgaca 180
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acctegag
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   ttettttaat titttttte etgetgeete tetaattgea gaaageteat ttattttag 180
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  cctgtggttt ctaaggaatt tgaatgatcc agatttcaat ccagtacagg aaatgatcca 180
  tttgccaata tataggcatc tccgaagatt tattttgtca gtgattgtct ttggctccat 240
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  tocatacaat greatgetet acagtgatge tecagtgagt gaactgreec tegag
  <210> 946
  <211> 187
  <212> DNA
                           iens (1906) de la companya de la comp
La companya de la companya della companya d
  <213> Homo sapiens
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  gactetttta aagaaaaaat atteagtett taacaetegt taaageatge aaaggaagae 120
  tttattcagg atcatcgtga taggtattgg aagcacagca gtgagatttt gcaatggggc 180
                                                                                                                    187
                                                                                                                                      actegag
                                                                                                                        医乳腺 医电子性神经病的
  <210> 947
  <211> 298
  <212> DNA
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<400> 947
                                                                                                                                     1. 1. 18 L.
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 gacaaaccca ggagaaggga acacgagggt gaggagaaca gggtggcctt cagacaccca 240
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<212> DNÀ
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<210> 949
<211> 216
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<213> Homo sapiens
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<210> 952
<211> 164
<212> DNA.
                                                                Ť
<213> Homo sapiens
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atatgeteca ggttetaata tacatactii aetggetgta teetacacaa aacacacaac 180
aagcactcga g
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<210> 955
<211> 195
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   gtgagcatac tcgag
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   <211> 231
                                                        and the second of the second o
   <212> DNA
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  acactattag aagtettata aattatgeta attagcatgg cagteatgtt acacactett 180
  aacattgcca aagaactgtt gatttcgttt gagaaaaccc caggactcga g
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 gagegtagee theageattg ceetgatatg tgggatggea atetectata tgatatateg 180
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 aaaggttaag caagatttcc aggtttacag agatattaat taatctggat gaggcttctc 180
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agecacagea atgrettee trigeaging treetterat techniques agactagete 180
tgatagggaa gctctcgag
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 cateteaage tegag
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 ttgaagtatt taactttttt gttggagcca gagtctcagt ctaggttgga gtatagtggc 180
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gaaacttacg agtgaatgag atactttatt ctaaacagtt tgaatgtcat tgtgattttt 120
trgtctttag trgatgatgg tgaggreete gag
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<210> 964
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aaggeeeett etgeetgatg geacatteag eteetgtaag aaggtatgte tgtgtttttg 180
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 agggagattt caacacttgt ttgtcttaaa tactttctgc tatcatctca ttgccatcca 180
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                                                1 1 1 1 1 1 2 2
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cacaaccaag gtcccatttc cactgaccct cogttttaag cctatgttac agcaaggaat 180
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aaacactctc gag
<210> 971
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<212> DNA
<213> Homo sapiens
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 agettteteg ag
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 <213> Homo sapiens
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 coccttate ettagtaatt ttttttgtt ctaaaatgte etttggtatt gatgeageeg 180
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 <212> DNA
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attgtaattt cogtttattt aatgatattt ttatttattt gtgcctttta tgttgaaccc 180
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     atcaggtttg gaagcacttg gcataaagaa cttcccccac ccaattcaaa gaaatagtat 180
     ttaagecete ataatgtgea gtgtggttaa actgtgtete gag 223
                                                                                                                                                                                                                                                                     15 d . .
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     <211> 173
     <212> DNA
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    <210> 978
    <211> 148
    <212> DNA
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    <400> 978·
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    caccgggtgt gctgacggcc aactcgag
                                                                                                                    <210> 979
   <211> 224
                                                                                                                                                     and the contract of the contra
   <212> DNA
   <213> Homo sapiens
  <400> 979
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   anatttttag ctgaatttat tganattata tttgttamat gattacaatt tganaatact 120
  ccgtgtttga tgttaggctg aacatgaaaa ctttttattt gaatcagatt tttttttt 180
  taagtitigt ccatcaacta aaggcacaaa cagacgacct cgag
                                                                                                                                                                                                                                                          224
                                                              -pacta adygracian cayacyaccy cyay

All the particle of the par
  <210> 980
  <211> 135
  <212> DNA
  <213> Homo sapiens
                                                                                                                                                                                                                                                                                                     100 00 00
  <400> 980
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 <211> 189
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<212> DNA
 <213> Homo sapiens
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tgtgcaggct tggtgctggg tgcaatgatg gaacgaatgg gaggttttgg ctccattatt 180
cagetatace etggaggagg acetgttegg geageaacag catgttttgg attteecaaa 240
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<212> DNA
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atcttttat cttttgttgg gggaatctcg ag
                                                                152
<210> 987
<211> 235
<212> DNA
<213> Homo sapiens
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```

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     tecttttett aettteete tetteetest teetteest tectesses tegag 235
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     <400> 988
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    tgcatggaac agtatcccct gcacccacgc ttcaccccgg ttagtctcga q
     <210> 989
    <211> 174
    <212> DNA
     <213> Homo sapiens
    <400> 989
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   ggctgtttgg agacccagtt gctcatggtt ttaattctga cacatttaag tggtgttttg 120
    ttttgtttgt ttctgagggt tggggttgtt ctctgttgcc caagctatct cgag
                                                                                                                                                                                                                         174
   <210> 990
   <211> 207
   <212> DNA
   <213> Homo sapiens
                                                                                                                                             the transfer of the second
                                                                                                                                       and the second s
  gaattegegg eegegtegae geetgteeet eeteegtaat ageteageae etcacacatg 60
   cttccgactc agcctgtgct tttgcaactt atttgcttac ctattttctt ttcccactcc 120
  tocatgaett tgtggaagge aaggaettta teteaggatt tetetateae eagaeetage 180 🐃
  ttggggcagc aaagcaggct cctcgag
                                                                                                                                                                                                                         207
  <210> 991
  <211> 169
  <212> DNA
  <213> Homo sapiens
                                                                     property and process that the configuration of the property of the second of the secon
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 aattteeett gigattiett eitigaeece tigatigitt agaaateigt taattieeae 120
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agaaaataaa geetggegta gacagteeca tagaaaatag aateeatage caetgggetg 120
coefficient tecesation ticeactang teteningate canatetyte aetitetega 180
                                                181 - -
<210> 993
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tgtcctgcag ctgtaccctg agaactcaga gcagttggag ctgatcacaa cccaggccac 180
aaaggeagge tteteeggtg geatggtggt agactacect aacagtgeca aagcaaagaa 240
attotacete tgettgtttt ctgggccttc gacctttata ccagaggggc tgagtgaaaa 300
tcaggatgaa gttgaaccca gggagtctgt gttcaccaat gagagagtcc tcgag
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<211> 249
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acaactcagg ccgggcacgg tacaaattaa tttaacacat cttttgataa tctcatcctt 180
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<211> 346
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<213> Homo sapiens
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aggiteteae aaaataacig gigetagete aagaaateat cateigaeea teagaaatet 180
tgactaaagg tgttgcatgg atttgggggt cttteggttt ttggttttgg gtetggettt 240
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<211> 147
<212> DNA
<213> Homo sapiens
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ctaatgetea ttaccegtat getegag
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ttggtttaat ctgatattta atcttctgta ttatagtaag ctgaaaccaa aattgagaca 180
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ctcctcccac atcacatcac agtctcgag
                                                                329
<210> 998
<211> 293
<212> DNA
<213> Homo sapiens
```

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   gettecaaat Etgecaaaat taagegttea gtatttteaa cacalaeget Etttaetggt 120
   ttatactgaa ctatctgatg agaattcctg tgttcccaaa gcaactgatg tttacaggtc 180
   ttgtgtttet ceteeteett tetaaggatg agggaateca caacagaett tetetagaaa 240
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  <210> 1000
  <211> 152
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                                                                                                                                                   152
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 tgtototaaa tttactgcat atgattocat tcccttgtat actgctagag tgaatagtca 180
 cctcacgaac ctcgag
                                                                                                                                                    196
 <210> 1002
 <211> 311
                                                                                                                                                        in the
 <212> DNA
 <213> Homo sapiens
                                       in Dinamental (no consequence) de la frança de la companya de partir de la frança de la consequencia de la fra
La consequencia de la confesiona de la companya de la companya de la consequencia de la companya de la company
La consequencia de la consequencia de la consequencia de la consequencia de la companya de la consequencia de
<221> unsure
<222> (280)
<400> 1002
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tetggeccaa acetgaeett caetetggaa egagaacaga ggtttetaee caeaeegtee 240
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ctatectega g
                                                                                                                                                  311
                                                                     1000
<210> 1003
                                                                   and the control of th
<211> 208
<212> DNA
<213> Homo sapiens
```

```
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<213> Homo sapiens
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                                                                   223
<210> 1005
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tgctactcga g
<210> 1008
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cccactcgag
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<210> 1009

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i de la composition de la composition
La composition de la
La composition de la
       <211> 245
<212> DNA
        <213> Homo sapiens
       <400> 1009
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      cttcccttaa taagctgcag cctgtgaatc tcaaaataat ggaagtttta aaaacagaaa 120
      gaaaaagatt titattita tittitatt titattitt taagacaggg tottgototg 180
      ttgeecagga tggaatgeag tggeacaate geggeteget geggeeteaa tetetgggge 240 ج
      tegag
                                                                                                                                                                                                                                                                                                          245
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      <211> 183
      <212> DNA
      <213> Homo sapiens
     <400> 1010
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     gggtgctgaa gaaagactac ttaaaatcac tatttaatag tacagtaaat aggagatacc 120
      tgtattttga actttgcata aaattgatgt ttctttatgg ttaaatttag attaatactc 180
                                                                    183 The property of the experience of the exp
                                                                                                                                                                                                                                                                                                      183
     <210> 1011
     <211> 141
    <212> DNA
                                                                                                                              <213> Homo sapiens
    <400> 1011
    gaattegegg cegegtegae ceagactete atatecatgg etttettgtt trataaaata 60
    gtatacttac tgtgccttaa acagaacttg gatcccctct atttccacta cattcctcct 120
    tgtcctcgta aggacetega g
                                                                                                                                                                                                                                                                                                     141
    <210> 1012
   <211> 162
<212> DNA
                                                                                                                                                                                                                                                                                                         and the state of t
    <213> Homo sapiens
   <400> 1012
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   gttattetga tetanatgaa cagcattttt tteettagee tetgtttgee actetgggta 120
   totototat gggcamagec attagamatg catcometeg ag
                                                                                                                                                                                                                                                                                                   162
   <210> 1013
                                                                iens ( ) produce produce the state of the st
   <211> 217
 <212> DNA
<213> Homo sapiens
                                                                                                                                                                                                                                                                         Part Brownski har well by
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 caatattact attatgtgtc tagatatagt ttctttttt atccagcttg ggattcttag 120
 aaattettea ttttgtagtt tgatgtettt tgaaagtttt ggaaaattee cagteagaat 180
 atcctcagat catgitteta tececaatic telegag
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 <211> 265
<212> DNA
<213> Homo sapiens
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100

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catacccatc atccatamama gtotottcot gtocotttgt attocottat tamgamacta 180
ctaaatgttt aagtatttgt gctattttcc attcctatca gcagtacatg ataattctcc 240
ttgttccata tcgtctgagc tcgag
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<211> 127
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<213> Homo sapiens
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cacagttcca agtacatctt aagaagcaca ctctagatgc agaatgaaga ttcactattt 120
gctcgag
<210> 1016
<211> 231
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tttettttt tttttttt gaggeagtet tactgtatgg eegaggetgg agtgeagtgg 180
catgatettg acteaatgca acetgtettt egggtteaag tgattetega g
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<211> 209
<212> DNA
<213> Homo sapiens
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agcagetggt cagtggaaca actetegag
                                                                   209
<210> 1018
<211> 205
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<213> Homo sapiens
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cttcatctct tgccactctg tcatctctgt gtccccagtg catgtcccat ggacacagtg 180
tgcagtcata cccccaattc tcgag
<210> 1019
<211> 218
<212> DNA
<213> Homo sapiens
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ctcttaatcc caactgttta ttatactcat ctctcgag
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<210> 1020
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<211> 259
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tettegeect aggeacatae teteateege agetgaaatg cagttteaga atgtgaatee 180
ttatttcacg ttctgtgtgg tgatgttttc tgttttctct cttgcctcct cctcagcatt 240
ggctacacac ccactcgag
                                                           259
<210> 1021
<211> 165
<212> DNA
<213> Homo sapiens
<400> 1021
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ttttttctcc attatttata aatgtttgct tttaaactga ttttatttc cattctcccc 120
tggagttggg ccaggggaga gtggggtggg aagacagatc tcgag
                                                           165
<210> 1022
<211> 195
<212> DNA
<213> Homo sapiens
<400> 1022
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ccaccttgcc cttcccgaaa ctgccatatt gttttccgta atagctgcat catcttacat 180
gcccctgtgc tcgag
<210> 1023
<211> 143
<400> 1023
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tatggaaggt getggggete gag
                                                          143
<210> 1024
<211> 166
<212> DNA <213> Homo sapiens
                                                                  S_{n,k}(x,\xi_1) = C_{n,k}(x,\xi_2)
gaattcgcgg ccgcgtcgac caggaaagca ttgaattaaa ttatacagta ccatttctcc 60
aggtattgag ctaaagagaa tggagctaaa attgccctgc tgtcttgtca ttaccctatt 120
tetaattetg teaftttett teeaaaaats teaegeatat etegag
                                                        166
<210> 1025
<211> 164 ·
<212> DNA
<213> Homo sapiens
<400> 1025
gaattegegg cegegtegae attggaaata teatecagae agaaagteag caaacatett 60
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acttaatctg cagtacagac caaatggacc taatagacat ttacagaaca ttttatccaa 120

```
tggctgcaga gtacacattc ttcagctcat ggatcattct cgag
                                                                    164
 <210> 1026
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 <212> DNA
 <213> Homo sapiens
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tgttacttac ggactcgag
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<211> 174
 <212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (42)
<220>
<221> unsure
<222> (56)..(57)
                                                 Ž.
<220>
<221> unsure
<222> (61)
<220>
<221> unsure
<222> (64)
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<210> 1028
<211> 169
<212> DNA
<213> Homo sapiens
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tttttctttt tttgagatag acagactctc tctgccaccc agactcgag
                                                                   169
<210> 1029
<211> 265
<212> DNA
<213> Homo sapiens
<400> 1029
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teageaaaca gtgagtttga etteeteett aatgatttgg atgeeettta tttetttete 120
ttgtctgatt gctctggcta ggacttccag tactatgttg aagaggagtg gtgacagtgg 180
gcatccttgt ctagttccag ttctcagagg gaatgctttc aacttttccc cattcagtat 240
tttgttggct gcaggccatc tcgag
```

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<210> 1030
<211> 223
<212> DNA
<212> DNA
<213> Vermo grandeds
  <213> Homo sapiens
  <400> 1030 ·
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  tcctttgata ttacaatttt gatttatgtt ttttataaca cttgtatttt tccttattac 120
  cacatcaata tatattcatt gtggaaaact atgtaaaaat gcagaaaaga atacattaaa 180
  adatadaaac teetgeattt tacteettae tgatactete gag
  <210> 1031
  <211> 135
  <212> DNA
 <213> Homo sapiens
 <400> 1031
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 ttgtctttct tgaacttaaa gaaacaaatg acaaagtttg aatggaaaag cctgctgttg 120
 ttccccacgc tcgag
 <210> 1032
<211> 186
<212> DNA
<213> Homo sapiens
 <400> 1032
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 ctcgag
                                                                                                                                       186
 <210> 1033
<211> 165

<212> DNA
color figure at the figu
 <400> 1033
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atatggtatg aagcagccat gtacttgtat tttcctggtc tttcctgggc actcttctct 120
                                                                                                                165
cttggcagat gttttcttaa agtgaacaca ccagaagege tcgag
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<213> Homo sapiens
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tttaatttaa tttatgagat cagagtettg gtatgttgeg ttggetggte tegaacteet 180
aggettgagt gateettetg ceteageete tetagtgget ggaactgtaa gtgeacacea 240
ccatggcaca aatctcgag
                                                                                                                                      259
                                                                                                            . . . . . .
<210> 1035
                                                                                                     <211> 205
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<212> DNA
<213> Homo sapiens
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<400> 1035

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 cacagataaa ttgcatggaa aaaggatggt ggggggatcc atttctggct gtgtatttcg 180
 ctgccttgtt gtccctatcc tcgag
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 <211> 171
 <212> DNA
 <213> Homo sapiens
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 aaaacggtgg ggttgggagg Etgtagtact tcaaacaaag gtgaactcga g
 <210> 1037
 <211> 251
 <212> DNA
 <213> Homo sapiens
 <400> 1037
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 tttttatete tgtaacetgg tgacataaag ccaggaacat tttcccacaa tccaccttag 120
 cataaaacat aacaatttca ttcatcagtt gttattgtgt agaaccaatg aacatgttgg 180
 teattigiet gtattiagie titattigia tigetatati igageattee aagatigeag 240
 agggtctcga g
                                                                    251
 <210> 1038
 <211> 159
 <212> DNA
 <213> Homo sapiens
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aacctattat tattatattt gagatatggt ctctctcacc caggetggaa tgcagtggtg 120
caatcacage teactgeage eteaatetee aagetegag
                                                                   159
<210> 1039
<211> 188
<212> DNA
<213> Homo sapiens
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caaaaatttg ccttttttta gtttttttt tgttgttggg atctaaaaga ttcttatatg 120
taaatacaaa tateacagag aaagtgaata tgatagccaa aatgtggatt atgaggatac 180
cactcgag
<210> 1040
<211> 207
<212> DNA
<213> Homo sapiens
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ataaagccca gcctggttgg tgtgctgtag gtagatattc atgttcaagg ctctgtctct 120
teetgacete egaactgttg teataaaate atteatteat acactaaace atttgatatg 180
tatttactga atcccctact cctcgag
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<211> 177
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 attocaccya tyctatatec gygtttyttt geaactttca agtgygtatt atttecytta 120
 getttggagg aatattettg tgatcacgca atcaaccate atgatagaaa cetegag
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 <211> 172
 <212> DNA
 <213> Homo sapiens
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 tatatgttgt cttttttcc tatgtctttt ggctcaagca acgtcgctcg ag
 <210> 1043
 <211> 378
 <212> DNA
<213> Homo sapiens
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tggagaaacc catctetget aaaaatgcaa aattggeegg gtgtggtgge atgtgeetgt 180
ggteeegget actegggagg etgaggeggg aggategett gaacetgggg ggeggaggtt 240
gaggtgggca gatcgcctgg ggtcgggagt ttgagaccag cctgaccgac atggagaaac 300
ceatetetge taaaaatgea aaattggeeg ggtgtggtgg catgtgeetg tggteeegge 360
tactagggag tgctcgag
<210> 1044
<211> 437
<212> DNA
<212> DNA
<213> Homo sapiens
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agtggaaggg cacccccgag ccageteetg cgattecaaa getgtaaget ggageggtte 180
ccagcaggcc aaatgggggt ggggagtagt gccgaaagag agaggeccac tcggtgaagt 240
tgttgtcccc gaagaagtac agggtgtcat tgcccaggga ggtggggtcc tgggggtgca 300
gragetgete cacatactee tggaagggea agtecacttt gtggtaggag taggtgttgg 360
eggtgeteag eeggaeeaet etgteeecaa aegaageeag caacetgteg egggageaea 420
gggcccggaa cctcgag
<210> 1045
<211> 420
<212> DNA
<213> Homo sapiens
<400> 1045
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ttggccaact ttgcctgtac caccgtgatg ttcagtcggc ccacggtgcc cactgcgcct 180
cegtactgca getgetggge egeetgggeg tecagetgga cetgeegetg etgetgtgtg 240
ggcgtgatgc ggaggaagtc ctgcgggagc tcaccgatgt acaccggccc gcgctgagtg 300
etgacggtgg tegecatggt getgeggegg ceeeegtgge tegecgaeee gaeagtgaeg 360
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Top 4 (b) Section

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cgccgggcga cctcctgcgc ccccgccgga gcctgcgacg gagacagttg tcacctcgag 420
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  <211> 424
  <212> DNA
  <213> Homo sapiens
  <400> 1046
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 ggtgeggget gteeteetgg geacteeegg tetgggagag geegeeteeg acceegetet 180
 ceteggtgae gttagaggag ceeggegtgg tggagegget caeegactgg gaeteetggt 240
 cactgoodga gooacgoogo toatcoaggo coacgtgoag cocatcotoo togocottge 300
 gytcccgett gtggacacgg gagtgcacga ccacctggtg gtaagtgcgg aacaccggc 360
 egeagteggg geacteggtg ggetteteet teatgtteec aggaceetge aggttatact 420
 cgag
 <210> 1047
 <211> 477
 <212> DNA
 <213> Homo sapiens
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 <221> unsure
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 ctgctcacag gtgaggtgag ctatgctggg ctgggtgatg aaccagatgg gaggaggtgg 180
 tgagacaggg ggagagecag gtgccaggga tagetgetee etgttetgge aecageaatg 240
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 tgcgggcagg tggggcagtg ggggttcaag tgttcaggtt ggacacacac cacctttgag 360
 atgactacga aagacccaag ggtgggcgtt aaataggggg ctggatacat aggtctggag 420
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 <210> 1048
<211> 192
<212> DNA
<213> Homo sapiens
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acctgggcag accegeegge tetecceeca ecceaeceeg ecceteaeat catactecaa 180
ccaaacctcg ag
                                                                   192
<210> 1049
<211> 366
<212> DNA
<213> Homo sapiens
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totacctcct tectotecca etgtttettt etgettttat etttetetet cettetetet 120
etteegtgea teteeagtge catgggggeg cetgtgetgg gggegecagg agagecacet 180
ggagecaege etgtgteece ggetttgggg agggteggtg ggttggtgag tgeaeggttg 240
gegetgetee aegegeeeeg ggegeaegea etecceggtg eteggatttg getggeagta 300
coctgooogg cocogeoggt egeogeococ gecaccageg ategettggg agagggttae 360
ctcgag
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   <211> 535
   <212> DNA
   <213> Homo sapiens
   <220>
   <221> unsure
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  geoggtgagt tigagiteet gagatetagt tggtgagaga catgatgite taeeggtige 180
  tgtcgattgt tggaagacaa agagccagcc caggatggca gaactggtcc tctgcaagaa 240
  acagegeate agetgeegag gegegtteea tggeeetgee caeccaggea caggtggteg 300
  tetgtggagg tggaatcaeg ggeaettetg tggeecatea ecaatceaaa atggggtgga 360
  aggatattgt cettttggag cagggcaggc tggctgctgg ctctaccagg ttctgtgctg 420
  gcatcetgag caetgceagg caettgacea ttgageagaa gatggeagae taeteaaaca 480
  aactetacea teagttagag caagaaacag ggateegaac agggtaacac tegag 535
  <210> 1051
 <211> 303
                                                                                           <212> DNA
 <213> Homo sapiens
 <400> 1051
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 gtgaacette tgaagaetge gttgeggeea gaeatgtgge ceàagteega aeteaagetg 180
 cagtggttcg acaagetgct gatgactgtg gagcagccaa accaagtgaa ctatgggaat 240
 atotgeacgg gootagaagt gotgagette etgetaactg teeteeagte ceeaggeete 300
 gag
                                                                                                                                                                                      303
 <210> 1052
                                in the second of the second of
 <211> 533
 <212> DNA
 <213> Homo sapiens
                                                                                     and the second of the second o
                                                                                    <220>
 <221> unsure
                                                       ag e est facility of a contest program
 <222> (286)
<400> 1052
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ggacctggct cagataaatg atctccaagc tcagctagaa gaagccaaca aagagaagca 120
ggagetgeag gagaagetac aageceteca gagecaggtg gagtteetgg ageagteeat 180
ggtggacaag tocotggtga gcaggcagga agotaagata ogggagotgg agacacgcot 240 🐇 👙
ggagtttgaa aggacgccaa gtgaaacggc tggagagcct ggctanccgt ctcaaggaaa 300
acatggagaa getgaetgag gagegggate agegeattge ageegagaac egggagaagg 360
aacagaacaa geggetacag aggeagetee gggacaceaa ggaggagatg ggegagettg 420
ccaggaagga ggccgaggcg agccgcaaga agcacgaact ggagatggat ctagaaagcc 480
tggagggtgc taaccagagc ctgcaggctg acctaaagtt ggcattcctc gag
<210> 1053
<211> 531
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
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<222> (511)
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getgetgeae tecnneetgg gegagagage gagaetttge etcaaaaaac aacaaaacaa 180
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gtttatcctg ttttcctgtt ttactttgtc atcagttgga tgattctcac ctttactcct 300
cagtaaatca ggaatgggaa attaaaaacc agtgaattga aagcacatct gaaagatgca 360
atteaceatg gagetttgte tetggeeett atttgtetaa ttttggaggt atttgataac 420
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                       <211> 263
               10 1 mm
<212> DNA
                 <213> Homò sapiens
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gesteesatg ttegageggt tetestgest cagesteesa agtagetggg attacaggtg 240
cccgccacca caccgaacte gag
                  医乳腺 医海豚属 数据数据 人名西西巴特勒 电压力联系统
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tattecatta ggggactttg ccatatatgg catatttgtg taaaagttcc atgagagcag 180
aggittigtt tectitatee etecatacae ageaactgga acaatacaat geatagagta 240
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attgctcccc ctcgag
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<211> 393
                                                 erigina ar organization
Programme
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  agaataccat caggatgaag getatgatta atacacataa ttgctacaaa tggcagetaa 240
  ctgcagaaaa ccacctccca getgttggag gaaggaaatt getgacagec actccccatt 300
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 agaeccattt etggecagna aactteaget ateacagtet acattgtgat gagttgettg 180
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teteatgatg aggageataa aggtggtgtg atgtgeaact geetagagge agataaataa 240
atytyaaggc aaagtyggcc aaggaagcaa gaggtygaaa agaccaacaa aattcaacta 300
acticcetce ceagtecaca actaigetaa eccetteige cacigggeca acigeagaga 360
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<210> 1065
<211> 262
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     ceteacetge ggtgtetntg gtggeteest cagtggtget geegaettet ggggetgggt 180
     ccgccaggcc cccgggaagg ggcttgagtg gattggcaat atgcaccatc gtggaaatgc 240
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    gacegggate tregtegagt caergaagre erggacerrg accyreteeg gergaerggt 180
    gaagttegag atetggaeet aegteggett ateagggggg ttetggaeet ggategeegg 240
    tgagtggetg gagaggctcg ag
                                                        The first of the second of the first of the first of the first of the second of the se
    <210> 1067
                                                                                                                               <211> 123
                                                                                           n de la companya de
La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
La companya de la co
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    <213> Homo sapiens
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                                                                                                                                                                                                                                                                    123
   gag
   <210> 1068
  <211> 265
                                                                    the companion of the parties to embrace the parties of the
  <212> DNA
<213> Homo sapiens
                                                                and the second of the light of the second of
                                                                                                                                                                         المعالمة المعالم المعالم المعالم المعالم
                                                                                                                                                                                                                                                              James Bright &
  gaattcgcgg ccgcgtcgac ggggttctgt ttccatacaa cattgtttat ttccgattcc 60
   tcagaagatc ctttattatg aataacctca gtgtaatgtt aatttcccgt ccccatgtca 120
  assityteac cetaageett tittittit tittittit ggagaeggge teactetyte 180
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  <213> Homo sapiens
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caattaggaa acttetagtt caggeaagag ataatgatag cataggetga ggacaggtgt 180
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ctcgag
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acacatcaca cagatcctgt ttggcattcc taccttacgg acgtctcagg ggtgacagga 180
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 agtoacctag amatgtactg ctctcatcta gctgggaagg tcattgtamt tttcttctat 180
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<211> 282
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      aaatateece aaagttgttt tetagatttg tggetttaag aaaaacaaaa caaaacaaac 180
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   ataactcgag
                                                                                                                                                                                                                                                              190
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                                                                                 <211> 110
   <212> DNA
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   <213> Homo sapiens
  <400> 1088
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  gtttctccac caaatccata atgctgatgt cctttgccca tatgctcgag
                                                                                                                                                                                                                                                                  110
  <210> 1089
  <211> 226
  <212> DNA
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                                                   and the control of t
The control of 
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 cattteaaag cactgtgata caaattactt atatatgtta tatactgtgt gtgtgttaac 180
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<211> 267
<212> DNA
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aattaactte agtaacactg aaacttgatg aaaagtttta aaaaattatt tactgtaggg 180
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tctcgag
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gtgggaagaa aacagcattt taaagtaact ttttgggaga ctgatttgag taataataaa 180
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   accccagaag ccctagactg agaagataaa atggtcaggt tgttggggaa aaaaaaagtg 180
                            192
   ctddctctcd ad
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   egetececea ggeeeteceg geoegacat etectegece tgeggeteet ataaceece 180 🚋 🖟 🔆
   cccactcgag
                                                                                                                             190
                                        The part of the wind of the control 
   <210> 1099
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  actgegtggg catgtgegga gaeggegeea atgaetgtgg ggeeetgaag geggetgatg 240
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  cttetgeetg caegitgetg aaaciggeet ggaggiteig acaagaatta gageggegge 180 🐇
  cgttgccccg gggatgacct ggaagcgaaa gagaccggca cgaattctag agtttcgggg 240
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 <210> 1107
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                                                                                                        The control of the co
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 cccaacteca ttaataaace ccttggctgg aagagetect tatgttggaa tggtaacaaa 120
 accagcaaat gaacaatccc aggacttetc aatacacaat gaagattttc caggcattac 180
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gagtttttca ttcaggaatt gaagtctatg gcagagaatt tgcttatggt ggccatcctt 120
acceptation to the same acceptation of the same acceptation and the same acceptation and the same acceptation and the same acceptation and the same acceptation acceptation acceptation and the same acceptation a
ttaaatttaa agaagetgtt gttttaggga gcacggaett ectagaagat gatatagaaa 240
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 tataaatgag aggtttggct tcatctcagt ttagaaattt attcaaagct aaagatgtat 180
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gtttcacttt acttgtatat cagatatata agctatgaac acaagtttgt agtanaagta 180
tettetgtet gggcaatgge teacacetgt aattecaaca etttgggggg etcaggtggg 240
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gag
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    gtaatteatt etetgacaaa ggggaagaaa gacataaaga aaagegacae aaagaaggtt 180
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   tectagaget ggaggaacaa geeeteteet ggeagaggea ggagageaag tgeteteeta 180
   tgatecaata cateaggegg gagtgetgag teegteagga caecactect egeageatea 240 👚
   aggtccagtg gggttgggtc agggcagtga gaaggggtgg ctcgag
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                                                                  taggaagga 60
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   <211> 170
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 cttggttact ggtattetta geaggatett etgttetttt atattacace tttcattete 180
 agtcactcga g
                                                                                                                                                                                     191
                                                                                                                                                                                           Jan S. Dalles
 <210> 1118
 <211> 175
 <212> DNA
                                                           and the state of t
 <213> Homo sapiens
                                                                processing the second contraction in the second contraction in the second contraction of the sec
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 cteacacett actecacegy geacatecca acetgeactg gggcccacec gagegettgt 240
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 <210> 1122
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atcetecase tettgttgga gaetttaeta agtettttaa ggagtttatt gatgettgce 180
tgaacaaga tccatcattt cgtcctacag caaaagaact tctgaaacac aaattcattg 240
tasasastte assgasgact, tettatetga etgaaetgat agategtttt asgasgatgga 300
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gcagggaaaa caatactcat cctgaatgga gctttaccac cgtacgaaag aagcctgatc 420
caaagaaagt acagaatggg gcagagcaag atcttgtgca aaccctgagt tgtttgtcta 480
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atcaggcgat tgaagaactc gag
                                                             563
              **
<210> 1127
<211> 217
<212> DNA
<213> Homo sapiens
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attgggtaga gagaccaaag atettgatga gatggatgat gatgacgacg acgatgacgt 180
                                                                     and the second
aggagateat gaegatgaee accetgggaa actegag
                                                             217
                                                              ender der State in der State der
<210> 1128
<211> 222
July 4 of Mary or the Louisian Section
                  a din Baga a salangsa di jan sahar na alikaka ada baga
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<212> DNA
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tegag
<210> 1130
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<211> 167

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agreecegees tetritites tytesecate gytagtetys gtgcaegtyt titesacagt 240
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<211> 159
<212> DNA
<213> Homo sapiens
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<210> 1135
<211> 419
<212> DNA
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<213> Homo sapiens
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ttctggcagc agccaccatc attttgtatt tcattccact gcggtacatc attttaatct 240
qqqqcataaa taaatttact aagaagcttc gaaatcccta ttccatcgac aataatgagc 300
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<213> Homo sapiens
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egittecatg tittiggtag taaaagggat gettigeaaa geeettgate agitteecag 120
cattttggtt tggatgactt tgacaagtgt tgggaagtgg aggggtgttg tggctgatgg 180
tgtetgtttc ecccaggece geetgaactg taagcactgt gggaagcagg etetegag 238
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<211> 220
<212> DNA
<213> Homo sapiens
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tatattetgt ttetteettt attgeageet eteteaggge eteeaggege tgeeggetge 120
teteetteat giteacgaca tetitgiaat ecceetgeag ggetetetge agteegtaga 180
cagettggaa aaeggaattt teaetteeat teagetegag
                                                                220
<210> 1138
<211> 326
<212> DNA
<213> Homo sapiens
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ggtgattttc atgttcatgg tggctagcaa gttcatcacg ttgaccttta aagacccaga 180
tgtgtacagt gccaaacagg agtttctgtt cctgacaacc atgccggaag tgaggaagtt 240
gccagaagag aagcacattc ctgaggaact gaagccaact gggaaggagc ttccagacag 300
ccagetegtt cageegagtt etegag 326
<210> 1139
<211> 256
<212> DNA
<213> Homo sapiens
<400> 1139
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tacttctaaa attgtggtag aatacatata acatagaaat tattgttcta accattttta 120-
aatgtacaat teagtggtet taageacatt cacattgtte tgtttateta cagaaegett 180
ttcatcttgc aaaactgaaa ctctgtattc attaaacact aactccccat tttctccttc 240
ccccatatcc ctcgag
<210> 1140
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· ·

 $\chi^{(n)}: \mathbb{L}^{n} \to \mathbb{R}^{n \times n} \to \mathbb{R}$

<211> 320

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  <213> Homo sapiens
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 ageagtggcc cageccaggg cageaaccat gatettgtac tetecettgc eggeatteeg 180
 ggacatgaca aggtttagac ctatcaggtc tgccacatcc acgctggcct tcatgaactc 240
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 cttgcagagg cggactcgag
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 <211> 273
 <212> DNA
 <213> Homo sapiens
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 ctgagtgact ctttaacgct tgccgtggga acaggaagat tttcgggacc attgcacaga 120
 gcatggagaa tgatgaactt ccgtcagcgg atgggatgga ttggagtggg attgtatttg 180
 ttagecagtg cagcagcatt ttactatgtt tttgaaatca gtgagactta caacaggctg 240
 geettggaac acattcaaca geaccecete gag
 <210> 1142
 <211> 186
                                                  ÷,
 <212> DNA
 <213> Homo sapiens
 <400> 1142
 gaattegegg eegegtegae tegaggagtg eeetaatega egaggaeeee caggeggegt 60
 tagaggaget gaetaagget tiggaacaga aaccagatga igcacagtat taiigteaaa 120
gagettattg teacattett ettgggaatt actgtgttge tgttgetgat geaaagagae 180
ctcgag
<210> 1143
<211> 289
<212> DNA
<213> Homo sapiens
<400> 1143
gaattegegg cegegtegae tgeeteagea cetttgeact ggttgtteee ttagtetgag 60
atecaetttt acccattgtt caetttetea titeattttg gtttetetea aacattgtet 120
cattatagaa acettgeetg acaactetaa catgteagee tetetgeget tettaggaee 180
tttctctcct cttacctgct ttttcttctt ccccactatg atttggtatc aaaatatttg 240
tycattttgc aattcagtgt ttacagcctg tcaagccacc caactcgag
<210> 1144
<211> 534
<212> DNA
<213> Homo sapiens
<400> 1144
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gccctggagc gcctgcacgc tcagctccct gaggtaggtc cggagggaga ccccccgctg 120
eccecegece teggecagga taceteteac eteatgtece etectecaga eccecacage 180
cetggatgcc ceatagcage cetgccaegg etggcagaac tgcctccace etccaccaac 240
ccccaagaca ggcaggtcga cgcggccgcg aattcgcggc cgcgtcgacg tggagaagga 300
egtgeegtge egetgggtte tgageeggag tggteggtgg gtgggatgga ggegaeettg 360
gagcagcact tggaagacac aatgaagaat coctocattg ttggagtcot gtgcacagat 420
tcacaaggac ttaatctggg ttgccgcggg accctgtcag atgagcatgc tggagtgata 480
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tetgttetag cccagcaage agetaageta acetetgace ccaetgaact egag
                                                            534
<210> 1145
<211> 149
<212> DNA
<213> Homo sapiens
               <400> 1145
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coccceacct triggéciet teattratte ettamatgit attenteaga cotccattit 120
ttttttctct cttaatcaca ccactcgag
<210> 1146
<211> 138
<212> DNA
<213> Homo sapiens
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ctggtttcac aaggtctaag aactccaggt gaaattcata gacattgtct cctttggcac 120
Catgteettg ggetegag
<210> 1147
<211> 246
<212> DNA
<213> Homo sapiens
<400> 1147
gaattegegg eegegtegae gttttgtetg etttaaaatt etgtattata etgeatgtae 60
tettttatgg egtgettttt teettgttat tgtateatga acaetagttt gttttteetg 120
ganaganace tgtactenat ggengttact ectentitet entectetit ecceeegane 240 💛
                                                       246
                     ctcgag
                                                             The secretary of the things of
<210> 1148
                                                                   <211> 190
<212> DNA
                                                                    هاي آرايين الراسية
<213> Homo sapiens
<400> 1148
gaattegegg eegegtegae gtteactgag cacttacata gattaacagt tacaagttte 60
catasateag tragaatatg actagettea gggaaggaat tttcaacaac tgcaatettt 120
gattgtttta etgtgggaac ttgcagtgat ataattgaca acattattta acaataatag 180 💮
           and a proposed of the company (the confidence which continues the contribution of the 190 contribution).
gtatctcgag
<210> 1149
                                                                   <211> 361
<212> DNA
<213> Homo sapiens
<400> 1149
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ctcagaaagc aacatggcaa tggaaaaaga aattggaaga ccagaggcac aggaggaaga 120
ggcagatggg gaagatgacg tagatggagt agaggaggca gaggaagagg aggcagggga 180 🦠
cgagggagte gaggaagagg tggaggtgge actaggggga ggggaagagg gagaggagga 240
agaggtgett ctagaggage taccagagee aaacgageae gtattgcaga tgatgaattt 300
gataccatgt tttcaggacg tttcagtaga ctgcctcgaa ttaaaacaag aaaacctcga 360
<210> 1150
<211> 297
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<212> DNA
 <213> Homo sapiens
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 ttttgcttat ttctcaacag gatatttgtt tttttccttc aattttttaa agttcttcaa 180
 gtattaggga taatgtcatt atctgtgaag tgttttgcat atatttgctc agcttgtttt 240
 ttgactttgc ttgttttttg tttttattct tttttgccac acaagccaga tctcgag
 <210> 1151
 <211> 346
 <212> DNA
 <213> Homo sapiens
 <400> 1151
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 tcatccgtac ggattttcaa atatgcgcta tatttcttcg ctaattagtg gtgttggtat 180
 ttreatgatg ggtgeaggae tatettggta ceatggagte atgggattge tteatectea 240
 accaatagaa teeettetat gggcatattg tattttagea ggateattag tatetgaagg 300
 agcaacactt cttgttgctg taaatgaact tccaggaaag ctcgag
 <210> 1152
 <211> 256
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ggcagtgccc acgtetttgg agetgcageg agggacggat ggcggaaccc tecagteccc 180
ttcagaggcg actgcaactc gcccggccgt gcctggactc cctacagtgg tccctactct 240
cgtgaactcc ctcgag
<210> 1153
<211> 181
<212> DNA
<213> Homo sapiens
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tttctatttt tgtcaaaact tcatggttcc tttcaagate ttttttgcca aaacactcga 180
<210> 1154
<211> 304
<212> DNA
<213> Homo sapiens
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gtaaaatoot cagaaggggg agcagttgat toagtaagac tgcgacaatt taatactgtt 120
acgettgett tgatacetga etaaatgtga etgagtgeaa caageattta agaaaatttt 180
tagacagtgt tttgtttaga attcagggat catgcattct ttaatggtgc tgtttgtttt 240
ttatttcttt tctacaaaga aaacaagtgt tgcctacaaa agtgactgct cacaatacct 300
cgag
<210> 1155
<211> 194
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<212> DNA
 <213> Homo sapiens
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 tagetatgge aaggtttgea gattttatea ggggtatget gaaactaatt etteteetee 120
 tgtttteggg agetaeactg teateeacgt ggtteaccet gaectgtttg aacageatca 180
 cacaccccct cgag
 <210> 1156
 <211> 537
 <212> DNA
 <213> Homo sapiens
 <400> 1156
 gaattegegg cegegtegae gettagaggt catettteaa ggaggeatta aatateaatt 60
 ataaattatt aagtcagata aatatgcctg accttttcac agttgaaaaa atacattttt 120
 teccetetat caaatgeeaa gtttttagtg gaaatgetaa tggcagtggg aaaggttgee 180
 teaettteag agagaetete getgtetgea ceettttaat aattgetett cetggeaagg 240
 etgecaette cetgeetece cagetggeag tggggeaace caggeetgtt tecagetace 300
 tgcaaaqcca gacctagacc tgccgtagct gttgtcccat gcctaattct agttacagga 360
 agccatecet gtacectggg tecatteaca ggaatgggtt ccagaggagg etgatagaag 420
 ggtttgaaat gactggctgg atccetteet geteagaeae agtggtaget ggagageagg 480
 cagagatggt agaattgcag gtttgaccac ctgtcgtgac cccagaagct actcgag 537
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 <211> 580
 <212> DNA
 <213> Homo sapiens
<400> 1157
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aaategetgt tiggattiec tgattitata acagggegge tggttaatat cicacacagt 180
ttaaaaaatc agcccctaat ttctccatgt ttacacttca atctgcaggc ttcttaaagt 240
gacagtatec ettaacetge caccagtgte cacceteegg ecceegtett gtaaaaaggg 300
gaggagaatt agccaaacac tgtaagcttt taagaaaaac aaagttttaa acgaaatact 360
getetgteca gaggetttaa aactggtgea attacageaa aaagggatte tgtagettta 420
acttytaaac cacatetttt ttgcactttt tttataagca aaaacgtgcc gtttaaacca 480
ctggatctat ctasatgccg atttgagttc gcgacactat gtactgcgtt tttcattctt 540
                                                                                                                    580
gtatttgact atttaatcct ttctacttgt cgccctcgag
<210> 1158
<211> 397
                                    Consideration of the control of the 
<212> DMA
<213> Homo sapiens
<220>
<221> unsure
<222> (27)
<400> 1158
gaattegegg cegegtegae etgecangtg gatgagaagt gattacetgt ggaaatteat 60
agtgttatet tittatagea ticatitaca aaggitggat tiatgtagge citticetti 120
tgttctttat tgcagatatt caagagaage ttatgtggag ttagttcace atattagaga 180
atotatteca ggtgtgagee teageagega tttcattget ggettttgtg gtgagaegga 240
ggaagateac gtecagacag tetetttget cegggaagtt cagtacaaca tgggetteet 300
ctttgcctac agcatgagac agaagacacg ggcatatcat aggctgaagg atgatgtccc 360
ggaagaggta aaattaaggc gttcggagga actcgag 397
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<210> 1159
  <211> 198
  <212> DNA
  <213> Homo sapiens
  <220>
  <221> unsure
 <222> (30)
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 getaagaaca gaagcaagtg etggagattt aetgagaggt tacaettgtg gaagatgaag 180
 tgtagcggca tcctcgag
 <210> 1160
 <211> 186
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 agatagetea gattgattga acacatttga ggaagagaet eetgeatgag ataccageat 120
 ttttacaaat actttttatg tacattcttt attttgtcat tttgtcaacc ctctccccaa 180
 ctcgag
                                                                    186
 <210> 1161
 <211> 298
 <212> DNA
 <213> Homo sapiens
 <400> 1161
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 caggetgeat ggaaaatate egeagggtee eccaggeaga acageeacge teeaggeeag 120
 getgteesta etgeetggtg gagggggaae ttgaeetetg ggagggegee getettgeat 180
agetgagega geeegggtge getggtetgt gtggaaggag gaaggeaggg agaggtagaa 240
ggggtggagg agtcaggagg aataggccgc agcagccctg gaaatgatgc aactcgag
<210> 1162
<211> 224
<212> DNA
<213> Homo sapiens
<400> 1162
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tgtegggtee teagategee tetgactigt taccacaaca aatcattttg atttcagtge 120
ctgttgggga cttgatttct tctcagtttt gtttgtttgt ttgtttcctt aatctggctc 180
atttgaaatt tetteteet eteaaceate ceactaatet egag
<210> 1163
<211> 314
<212> DNA
<213> Homo sapiens
<400> 1163
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tggagatatt aacagtgaac actgtcaagc agacacctaa ccacatcccc tcaacgatca 120
tgycaaccac ccagceteca gtagaaacca ctgtteetga gatecaggat agetteecat 180
acctgctgtc tgaagacttc tttggacagg aaggccccgg gccaggtgca agtgaggagc 240
ttcatcccac cttggagtcg tgtgtggggg acggatgtcc tggcctcagc agaggccctg 300
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tgatcgccct cgag
                                                                                                                                          314
                                       <210> 1164
   <211> 219
   <212> DNA
   <213> Homo sapiens
   <400> 1164
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   aaasaaagaa aaaagaaaaa aaagctttat acgttttagg ttgtgctttt gtaatagatg 120
   aaaaaaaggtg cgcttaaaaa gaaaatgtat gtttttttcc ccctttggat tttatttatg 180
   ctggattggg gaaagttgca gaatgagcgc caactcgag.
                                                                                                                                      219
   <210> 1165
   ≺211> 174 .
   <212> DNA
   <213> Homo sapiens
  <400> 1165
  gaattegegg cegegtegae acceeteagt gaacattegg gttgetteea ceetttaact 60
  tgtgtagett tttttggggg gatattttgg eteteaaaag gacaaaggaa aaaattaggt 120
  tcagttgcta ggattactca catgagggta ggcatgggca ggaccatact cgag
                                                                                                                                174
                                                                                         <210> 1166
  <211> 221
<212> DNA
<213> Homo sapiens
                                                                                         Constitution of the second
                                                                                                                                 (-1,-1)^{-1}N^{\frac{1}{2}}+2
                                                                   Contract of the processes
                                                                                                                                  gaattegegg cegegtegae gataettatt getgeetetg caccaatatg ettteegaag 60
  tgctgttgtt tctctctcaa tatttgacac tttgtggtga tatccaacta atgctggccc 120
  agaatgcaaa taatagagca gcacacettg aagagtttca ttaccaaaca aaagaagacc 180
  aggagatect gcatageett cacagagagt ccaccetega g
                                                                                                                                       221
  <210> 1167
  <211> 118
 <212> DNA
<213> Homo sapiens

**The same sapiens**

**The same sap
 <400> 1167
 gaattegegg cegegtegae tgggtttica catgetattt caggettgee ttttttatet 60
 gtatttette gtageagttt gtegaeetga gaaatggeet etteecagea atetegag 118
 <210> 1168
 <211> 248
 <212> DNA
 <213> Homo sapiens
                                                                                        in the profit of the second of the second
                                 <400> 1168
 gaatteaaca agaggeagtt etttactaat caacatataa ettgaatace tgggeaaaga 60
 caaattattc aggtggacaa agaaataaat gaataaaagt gggattcaaa tttttgattt 120
 cataagttcg gaaataagta atcaagaaac ctaactaata aaccacacaa tcactgattt 180
 gcaaacttga acaccaaaga aaaagatatt ttatggtaac tatattcatt ttttttgttc 240
 tccctata
                                                                                                                                      248
 <210> 1169
 <211> 195
                                                      <212> DNA
                                                  Contract to the March 1999
 <213> Homo sapiens
                               1.3
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<400> 1169
 gaattegegg cegegtegae cageetggaa ggtaatgeat gtecatggta cacaaattea 60
 caaggtttgt aaatgagaaa agacgtgagg ttccttttgt tctttacctg tggcctccct 120
 gccctacacg gggactctag ggtggaatgt agcaaagccc atccaccagc catgtactac 180
 cccccccgc tcgag
 <210> 1170
 <211> 222
 <212> DNA
 <213> Homo sapiens
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 ataacaccag tgttttattt gttgtattat gaaattttag ctaaggtgga tgttagtcat 120
 cattcaacag tggactcttc acatttacat tcaaaaatca cacccccatc acagcagaga 180
 gaaatggaaa atggaattgt gccaactaaa ggaatactcg ag
                                                                 222
 <210> 1171
 <211> 314
 <212> DNA
 <213> Homo sapiens
<400> 1171
gaattegegg cegegtegae tagaagaaac ceagaaatte agtettttet gttttattegg 60
cagtggctag catgttetet gggtcaacta aagttegaag caggeecata agetggactg 120
ctcctccaag ttcaggatct gtatcacaaa tcatatgttc tataatgagg ttgatgagca 180
anatatecti getggttatt ttttgetetg ttaacttett aettacatea teattetgtt 240
ytgeeteetg catgacaaac tetegtacca tggatggatt atattcaacc aagtatgaga 300
atatatcact cgag
<210> 1172
<211> 177
<212> DNA
<213> Homo sapiens
<400> 1172
ggaattegeg geegegtega egeatttatt aaccagagta ettgtttgea attttttate 60
tgtgaaaata ttttaaaget ettacaaaac ttaaattttt aaaaaatcag etcaaaaatt 120
ttttccatgt tgttgggcat accactgctg tctctgcttt cggtttccca actcgag
<210> 1173
<211> 232
<212> DNA
<213> Homo sapiens
<400> 1173
gaattegegg cegegtegae gtttggagaa eetgtgtgaa aateeataet ttagcaatet 60
aaggcaaaac atgaaagacc ttatcctact tttggccaca gtagcttcca gtgtgccgaa 120
etttaaacac tteggatttt aeegtageaa teeagaacag attaatgaaa tteacaatea 180
aagtttgcca caggaaattg caaggcactg catggttcag gcccagctcg ag
<210> 1174
<211> 252
<212> DNA
<213> Homo sapiens
<400> 1174
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ggteteacte tgttacceag tetagagtge agtggcacga teacagetca etgcageett 180
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gacctgccag teteaagcaa teeteetace teageeteec aagtagetga gaccacagge 240
                                               252
   actcaactcg ag
   <210> 1175
   <211> 464
   <212> DNA
   <213> Homo sapiens
   <220>
  <221> unsure
  <222> (13)..(14)
  <400> 1175
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  acagtecete cattggette tectattett tgggtgaage tgettggtet acggggggtg 120
  acacagocat geoctactta acttettatg gacagotgag caacggagag coccacttee 180
   taccagatge aatgittiggg caaccaggag cectaggiag cactecatti citiggicage 240
  atggttttaa tttctttccc agtgggattg acttctcagc atggggaaat aacagttctc 300
  agggacagtc tactcagagc tctggatata gtagcaatta tgcttatgca cctagctcct 360
  taggtggage catgattgat ggacagteag cttttgccaa tgagacecte aataaggete 420
  ctggcatgaa tactatagac caagggatgg cagcaacact cgag
  <210> 1176
 <211> 170
<212> DNA
<213> Homo sapiens
  gaattegegg cegegtegae etttgggtat catateetga atatatgaag tteattaage 60
 actitectect catetecett agaaggiest etiteteesa gggiggggit ggggaagage 120
  tgacaggaca ccctaagtcc atcctgattt tgcagaaccc aaggetegag
 <210> 1177
 <211> 207
  <212> DNA
                                                                                                                                                                                <213> Homo sapiens
                                      The state of the s
                                                                                                                                                                         Company of the compan
 gaattegegg eegegtegae gigattgigt tittiaaaag ataagtaatt igalgaacig 60
 ttcttttgca gtcagaaaac actcacaaaa agacaaaaaa agttccacag tattatattt 120
 catgicagit caggodiana atcettigca antangatgi tintaggotg gicacantia 180
                                                                                                                                                                                                            207
 acaatgttat tattggcaac actcgag
 <210> 1178
 <211> 163
<211> IOS
<212> DNA
<213> Homo sapiens
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Taigh an taigh agus an taigh an taigh
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La capación de la granda de la granda de la capación de la capación de la capación de la granda de la capación
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La companya de la co
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4-11-5

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gagattgatg ttccatccta cctgcctgac ctgcccggca ttgccaacga cctcatgtac 420
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tgccagecgt catteettgg ceggeteect tgctcccgtg gaggaggggt gactccaccc 180
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                                                  and great and arrest and the second of
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attetgggea etggtegeet ceagetteet etceagetea tecacetteg etegag 236
                                              and Arthur Market (1997)
The Arthur Market (1997)
The Arthur Market (1997)
<210> 1228
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<212> DNA
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<212> DNA
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aggioggite etgeageggi geceggeage ettggigaag gecetgeeeg geagagatea 240
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  ggaagagegg gatgeagete gggetgggea aetgagtgag categagagt tggagaetet 360
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tttactgcag cagcatgtgt cgctcctggc cctgctgtgc catccctctg cctcctcacc 180
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   <212> DNA
   <213> Homo sapiens
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  <210> 1250
  <211> 203
 <212> DNA
<213> Homo sapiens
                                                                                                                                                                 A . . . .
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  taatygtaag aagagteeta ttaetaetee etttgtacat ggaggteate eeaataaaga 180
 aaggacgatg tcacgctctc gag
                                                                                                                                                                             203
 <210> 1251
 <211> 175
 <212> DNA 1 The state of the st
 <213> Homo sapiens
                                                                                                                                                                                               Section 1
                                            The sile of the production of the second section of the second section is the second section of the second section of the second section of the second section is the second section of the section of th
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<212> DNA
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tcgag
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<211> 217
<212> DNA
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ing the second of the set of the second of t
  <213> Homo sapiens
  <400> 1258
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  ttactttaag ctttttatgt gaacaaaga tgtacatata gtaagtatta cttccgtagt 120
  ceteanattt actataactt tigtaettag tatatgitti atatitiggaa aacageacta 180
  cgcttagttt tcctgtagtt cctgagtgat gctcgag
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                                                                                               <211> 156
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 <222> (22)
 <220>
 <221> unsure
 <222> (24)
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ataaagaaca ggttagaaag gcagtggacg ctctcttgac gcattgcaag tccaggaaaa 180
acaattatgg gttgcttttg aatgagaatg aaagtttatt tttaatggtg gtattatgga 240
asattccaag taaagaactg agggtcagat tgaccttgcc tcatagtatt cgatcagatt 300
cagaagatat etgtttattt acgaaggatg aacccaatte aactcetgaa aagacagaac 360
agtittatag aaagetitta aacaageatg gaattaaaae egitteteag attateteec 420
                                                                                                        432
tccaaactcg ag
                                                                                                                                             and the second
<210> 1261
<211> 188
                                                                                                                                             <212> DNA
<213> Homo sapiens
<400> 1261
gaattegegg eegegtegae ggtaagtgae tttggaaagt ggaatagagt aagggggatt 60
cagaattgtt gaggatagag gttgcaattt aaagtgaggt atactgggtg gagtatcctt 120
gagagagtga tatttaggaa aaatttaacg gagaagtaac catgttaata actggggcag 180
                                         <210> 1262
<211> 161
<212> DNA
<213> Homo sapiens
<400> 1262
gaattegegg cegegtegae ttaaagttta agtgatacta aattaagtea etgtteeett 60
gettaaaaet geteageget teccatetea tegagaataa aategaaget etteteatgg 120
```

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tototaatat totacataga ottaccottg tatacctoga g
                                                                    161
 <210> 1263
 <211> 209
 <212> DNA
 <213> Homo sapiens
 <400> 1263
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 agamacattg gttactttta ammatteettt ttetagetet ttatammaet ttattettt 180
 cataaatgta ccacaggata ctcctcgag
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 <211> 323
 <212> DNA
 <213> Homo sapiens
<400> 1264
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gaageeteet aggetteeag tetgeageat etetgteaca tggaaacetg atgggtgeet 180
ctgtgagggg ggccaattat gcacagtgca cactaaacac agatcatttt agccttccta 240
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<221> unsure
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ttaaagtact catctaaaat attttaatac tcattggagt gatttttgct agcaaagctt 180
aaaaattnac ataatgcttt gtttcaccct gatcctcgag
<210> 1266
<211> 289
<212> DNA
<213> Homo sapiens
<400> 1266
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ctccaggaca cccctcatac caaaatcctt ggatactcaa atcccttata taaaatagtg 180
tattatttgc atataactta tgtaccttct cctgtatact ttaaatcatc tctagattac 240
ttataatatt aatggtaaaa ccacaattac ttctgcacca actctcgag
<210> 1267
<211> 243
<212> DNA
<213> Homo sapiens
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 gtttttttgt ttgttttgtt ttattttttt totttttt agacagggto tggctctgto 180
atcoaggotg gagtgoagtg goattatoto agotcootgo aacotcoaco tocogagoto 240
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<211> 152
 <212> DNA
 <213> Homo sapiens
<400> 1268
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tgcaaacatt cgttttattt gctatttta aaaatttggt aatatggccg ggtgcggtgg 120
                                       152 ·
ctcaegectg taattecage acttteereg ag
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<211> 192
<212> DNA
<213> Homo sapiens
<400> 1269
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cactetytea eccaytetyy aytycaytyy tytaateata ytteaytyea yteteyaact 180
                              192
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<211> 384
<212> DNA
<213> Homo sapiens
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tggtttctta agaacatgac actaasaaaa aagtggtttt tttccaccgt tgctgattat 180
tagacagtag gaaatagetg tittetitag tittacaaga tgtgacaget ttagtggtag 240
atgtagggaa acatttcaac agctatagta ctatttgttt taccactgat tgcactaftt 300 tggttttttta acagttgcaa agctttttaa tggcafaaaa gtataattga aatctgtggt 360
                                                             384
atttatttac aaacatgtet cgag
<210> 1271
<211> 173
<212> DNA
                                                             13 - 140 - 230
<213> Homo sapiens
<400> 1271
gegteeteec geeegggtge tettgggtgg ttgeecegag aggegeacgg eegeetggtt 120
egegggggag egaaegggag geeggggaat gegaaeegge geaaaetete gag 💮 💮 173
<210> 1272
<211> 228
<212> DNA
<213> Homo sapiens
gaattegegg cegegtegae caaceteeig etgiceatgt attictiegt getgggaate 60
erggeeergt eccaeaceat cageeeeric argaataagt titticeage cagetteeca 120
aatogacagt accagotgot ottoacacag ggttotgggg aaaacaagga agagatoato 180
aattatgaat tigacaccaa ggacctggtg tgcctgggcc cactcgag
                                                         228
```

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 <211> 407
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 <213> Homo sapiens
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<400> 1273
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aagttatgca aaacatagca tttgcccctg actgggagtg cagggaagat gtggaagac 180
agagaggaag agaaggaggc tagggttagg tacctactca agaaggttga agggaattgt 240
ggaaggagag gggccggtgt cctgctcctg ctgtcaaact ctagaacctt gtggggctgc 300
tgtgatccca cagagaacgt gaagagggct cccagttccc tatggccagt gccaagetgc 360
aagtacatta gggagtatot ccaaggettg tgggtgggga actegag
<210> 1274
<211> 171
<212> DNA
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ttgtacatgt atgaaaatgg tgtactgtat actttaacat gcctcctcga g
                                                                   171
<210> 1275
<211> 274
<212> DNA
<213> Homo sapiens
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attittctcc attcagttta acatgtgtac tgcaaaagac agtatttttg gaaatgaagg 180
catagicitt cattiaaaca igcatcagag ggatticaci aaigaaagca itcaaatcal 240
gtgcctagtt cttgtttcta gcagcccact cgag
<210> 1276
<211> 163
<212> DNA
<213> Homo sapiens
<400> 1276
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atteceaect ggeaceatet titteaetge agaatgeatg aaggtggttg cateatgtea 120
tttcgacatg catttaaatg taatgaaagg cacacagctc gag
<210> 1277
<211> 254
<212> DNA
<213> Homo sapiens
<400> 1277
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ttttaatatt togtttttat ottttgattg gotgtgttta cagtgaacat ttcctctact 120
ggataactat gtgtaaattg ccattaggga tttataagcc tttacaacca gttttaggcc 180
aggaaatgtc cacagagttt gaagttttct ccttagggaa gttgttatgt tgctatagta 240
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agggagtact cgag
                                                            254
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 <211> 181
 <212> DNA
 <213> Homo sapiens
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 tttatatgcc attatgtggc ctctactgcc ttaggattct aatgttccca ctaagctcga 180
                                                         181
                                  <210> 1279
<211> 179
 <212> DNA
 <213> Homo sapiens
<400> 1279
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aggtgttttt tgttttttta agettetaag tgaateaact aatataatte ttaagagaat 120
tagotgtaaa gatattcata ccattgctct tcagacacat gcagctagtg ctacttgtc 179
                      <210> 1280
<212> DNA <213> Homo sanion
<400> 1280
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tacagatgag caagtggaga ctaaagatgt ttgagtggat gagtagacag gtgaacaggc 120
gggeattigt tittattatt gitacitati tallittaaa tittettit ggatgeteee 180 💛
teacceccet cetecticee caggeaggta titegataga taaaggatgg gtgetegag 239
<211> 213
<212> DNA
<213> Homo sapiens
gaattegegg cegegtegae gattttagaa getatagaea ttgtttaaga taactaagaa 60
tacttggcta agaagtataa tttgctaact attaaggact ttctttttt aatgttgtac 120
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tgcccaaget ggtetcaaac cectaatete gag
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<211> 148
<212> DNA
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agattttaac acacacgcat ttctcgag
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<210> 1283
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<212> DNA
<213> Homo sapiens
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<400> 1283
 gaattegegg cegegtegae gggaateagg gaaaggetge etetttggta teteaactgg 60
 tattgattat tgctatcaac tatttgggga gaaaaaatca aaatgaagcc ctgtcaaatt 120
 ttagaagtac tatctttggt ccttcaaaca ctttgtgatg acaccttaag aaaaacaaag 180
                                                                    186
 <210> 1284
 <211> 222
 <212> DNA
 <213> Homo sapiens
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 taaaaaacag taatgaagac tatatotoot ttoocagcac tgaatgtttt actagcactg 180.
 ggtgctcacc atgcaactga agaaaatgtg aaatctctcg ag
 <210> 1285
 <211> 190
 <212> DNA
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tatggaacac cccacaggtg caggtctgag gtgctccctg ttggcagetc ctaaagagaa 180
geagetegag .
                                                                   190
<210> 1286
<211> 177
<212> DNA
<213> Homo sapiens
<400> 1286
gaattegegg cegegtegae attgtacatg cttetggaet tgetttttee ettagtgtae 60
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tttttttgga cagttggaca tgegtgteec aagtgtgttt atttageega tetegag
<210> 1287
<211> 293
<212> DNA
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cccqttqaat ttgttgagat agattgcaaa ttttacttta gtcttcccag aagtcacggt 180
asagsagggt acagsagtat tgtgtattca asatccaaag tgcctttggg ataasagtas 240
ataggtcatt caggagaagg acatgttttc ttaattctaa aagctgactc gag
<210> 1288
<211> 277
<212> DNA
<213> Homo sapiens
<400> 1288
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cgtgctggtt catcgtgagt aagaagectg cettgetgtt eetgggaaga tgccatagtt 120
ttegttactg gatgtttggå gtagatactg gtctgtgått ggtggaatgg agaacacacg 180
tgttggtgct tctgggtagc actggtttgc attagtttat gtttccatgc cagagtttgt 240
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277
  gtgggeggge geatgtgcac cacagagtge actegag
  <210> 1289
  <211> 266
<212> DNA
<213> Homo sapiens
  <211> 266
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  <400> 1289
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  atgtgggatg gaatetgaga cettagaagg geeetteggt gtaaactetg aaggttagtg 120
  ccagaaggag gtggtcaact tcctaagtgg cctggggtca agatcatttt cacctagaaa 180
  gacaccagac tatagaaatc taggcaatga caaactgcta ccattttcct catatgattt 240
  tttttcaggc agcttgggga ctcgag
  <210> 1290
  <211> 139
  <212> DNA
  <213> Homo sapiens
 <400> 1290
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 ttatatrice tetgttgeat gaggattete atetgtgett ataatggtta gagattttat 120
 ttgtgtggct atcctcgag
                                                                                                                                  139
 <210> 1291
<211> 154
<212> DNA
<213> Homo sapiens
 <400> 1291
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ttaaateata atgaaageaa teettggeea ggtgeagtgg etcatgeetg taateacage 120
                                                                                                                                   154
 actttgggaa geggaggeag geagateact egag
 <210> 1292
                                      o de la companya de l
 <211> 269
 <211> 209
<212> DNA
<213> Homo sapiens
 <400> 1292
 gaattogogg cogogtogac gtaaatgott attagttaac caggoaggtt taaccaogtt 60
and the state of
 ttttgagatg gagtctcgct ctgtcaccca ggtgggagtg caatggcgtc gtcttggctc 180
                                                                                                                                                   1. . .
 cetgegacet etgeeteeeg ggtteaagea gttateetge eteaacetee eaagtagetg 240
                                                                                                                                             and the second
 ggattacagg caccegecaa ccactegag
                                                                                                                                   269
<210> 1293
<211> 207
<212> DNA
<213> Homo sapiens
                                              the content of the co
<400> 1293
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gttacagcca ttttgtgtga ttcacttcgg gggttaagta atgcaggatt ctgcaaacaa 120
ggtgtcgccg tccaaatgta ctgtcctggc atagagagca ctgctttgtt ttccactgtt 180
gtagagaaaa ctagggagaa gctcgag
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<210> 1294
<211>. 225
<212> DNA
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 <211> 197
 <212> DNA
<213> Homo sapiens
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ctagetetgt ecceeatget ggagtteaat ggeatgatet eageteaetg caacetetge 180
ctcctgggtt gctcgag
<210> 1296
<211> 171
<212> DNA
<213> Homo sapiens
<400> 1296
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coatcattgt ctattttgag agataactge getgetteec attgtgtgtt ttaaatgtta 120 .
ttgttcagtt tgagtcaaat aaaaggatat ttaatctatg gtggcctcga g
<210> 1297
<211> 253
<212> DNA
<213> Homo sapiens
<400> 1297
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atgaggatet actgeactga caagggtgte ctacagagtg gagtgetgte atatggeetg 180
ggacgggaga ggcccaagca cagcaaggac atcgcccgat tcacctttga cgtgtacaag 240
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<211> 170
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (32)
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tagagtggtt gagacttcct gggaggactt tttccgcctc cactctcgag
<210> 1299
<211> 185
<212> DNA
<213> Homo sapiens
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 etgetactag tgtecetgat ggtataactt tettaaatet tteagtaggt eeaggtgate 180
 tcgag
 <210> 1300
 <211> 245
 <212> DNA-
 <213> Homo sapiens
<400> 1300
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ggttttcagt ttctctagaa ggaaaaaagc caactttttg agcctgcctt tgtttctctg 120
cgtgtaagtg tatgtgtata taagaaatga aaattcattt tctcaccagt ttactagttt 180
atgtaagttg gttcctttta atccatgttt ttgagaatgg acttgggaaa gcaatgggac 240
tdgag
<210> 1301
<211> 358
<212> DNA
<213> Homo sapiens
<400> 1301
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aacagaaaag ccacaccete caaggtgtigg etticattit gggactgetg cagggaggge 120
agaggeatty ctgagactge ctggeaaegg ctgatgeece aggtaggace ttttccattt 180
caaagtggtg ttctaagtct gcgtccaaca ctgtgtagga aaaaggttgg tgcaaaaata 240
ttcctggtca tccacccatt aaaatagtta gatgaggeta ttgccttgat gacagctgtc 300
cacactcctc atgaaattaa cccgtatgcc ggggcatttc caaatgtctg aactcgag 358
<210> 1302
<211> 150
<212> DNA
<213> Homo sapiens
<400> 1302
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gaanatettt taaanaaatt ttagggcaca atgaggcacc actteetetg ggcanatgca 120
tttgctcctc atttagtgga cattctcgag
                                                           150
<210> 1303
<211> 200
<212> DNA
<213> Homo sapiens
                      Contract Care
                   <400> 1303
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gcaaatggca cgttgaaatg aggataattc aaggaaggta tatttacaaa gatattagta 180
ataaagatgc tggactcgag 200
<210> 1304
<211> 188
<212> DNA
<213> Homo sapiens
<400> 1304
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tagaggtagg atatetagta agageegtgg tgeteageee tggetgeaea ttggaactgt 120
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ctggagaaca tttaatggcc cgatgcccag gttcacccca gatcaattat atcagcagct 180
 cactegag
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 <211> 203
 <212> DNA
 <213> Homo sapiens
 <400> 1305
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 eeggagecae egtteetget getgeegeeg etgeecgaat eggaacegte gggeegeage 120
 cgccggcaat gccgcgaagg aagaggaatg caggcagtag ttcagatgga accgaagatt 180
 ccgatttttc tacagatctc gag
                                                                    203
 <210> 1306
 <211> 160
 <212> DNA
 <213> Homo sapiens
 <400> 1306
 gaattegegg cegegtegae caacattgaa gaggateact getttteata agtaagttga 60
 attttgaagt teetgtttte ttaaatetgt agaaataaac ttgeatgttt tgtgggttat 120
 gttaatttct aagctaattt gttgttgtgg tcagctcgag
 <210> 1307
 <211> 585
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> unsure
 <222> (18)
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<221> unsure
<222> (23)..(24)
<220>
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   gaggeetgtg caacetgtge ccagacaggg ccaacaagga gcacatectg cacgcaggag 180
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 atggaatcca actgettega ceceaagete gag
                                           ិស្សា ធ្វើខ្លួន ការប្រកិត្តិ ប៉ុន្តិទី បាន ១០ មានការិយា សំណាំង ១០ ខេត្តប្រកិត្តិទី ១០ ការប្រការ
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                                                                                                                                                                                                                              -11-
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agtotttae actgggaact cgag
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ettgtggete agegeegtge ggaggtaete gag
                  Constitution of the Section
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                                                    (1, \dots, \frac{d_{2}}{2}, \frac{d_{2}}{d_{2}}, \frac{d_{2}}{d_{2}}, \frac{d_{2}}{d_{2}}, \dots, \frac{d_{2}}{d_{2}}, \frac{d_{2}}{d_{2}})
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 gegtteecet caetgeteet cagaaggtgg ageteacegt ggagaaggaa gtggetgget 300
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ggacacatgg cettececeg etggcacece cacateaggg ceaceagggg aetgeteaea 180
eccaggight geogeototic gacotigetic tectigetic tigotigacotic aggingace 240
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                                                                  281
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 cagogetace tgggcatetg ccacccctt getteetgge acaagegtgg aggtegeegt 300
 gctgcttggg tagtgtgtgg agtcgtgtgg ctggctgtga cagcccagtg cctgcccacg 360
 gragititity ofgocacage catecagege aaccecacte interestance of contagence 420
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 gtcacctatt egeggetett ceegeeegee tteegeegte tettegagtt ettegtgetg 180
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 geogtggaac caggeageaa cetggaeatg caagatgage tegag
                                                                                                                   345
                            un de la companya de
La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
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aaagaatagg catagegtgt ctttctcttg tgagacacag ggactccaac tegag
                                                                                                                                 Section West
                                                                                                                                e ja se egençe
<210> 1416
                                                                                                                                 <211> 412
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<213> Homo sapiens
                           Tag cango com to compression of the page in which is
                                                                                                                                 gaattegegg cegegtegae aacteggtga acaactgagg gaaccaaacc agagaegege 60 🐃
tgaacagaga gaatcagget caaagcaagt ggaagtggge agagatteca ccaggactgg 120
tgcaaggcgc agagccagcc agatttgaga agaaggcasa aagatgctgg ggagcagagc 180
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tgtaatgetg etgttgetge tgccetggae ageteaggge agagetgtge etggggeag 240
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                                                                                                                Straight Control of the Control of
                           on the region of the control of the second process right to
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<213> Homo sapiens
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ctcgag
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                                                                and a section with the contract of the contrac
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   gttaatattt gcgaactcga g
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Les compositions de la composition de
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<210> 1434
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<211> 102
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<212> DNA
                              . :
<213> Homo sapiens
                               and the second
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                                                                 123
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<211> 115
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cotgetteet geatgeataa aattaataet teagecetet tecaaagaae tegag
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 gactcgag
                                                                     128
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                                                  ÷
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<212> DNA
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cgcctcgag
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  <212> DNA
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                                                                                                                                                101
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Basar di Kanggaran Beranda di Kanggaran di Kanggaran di Kanggaran di Kanggaran di Kanggaran Basar di Kanggaran
gaatteggee aaagaggeea tteaaaaata aaattattga acagettage ceteaagetg 60
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                                                                      第二十二字章 S
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<211> 118
           the state of the second section of the section
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                            7 21.
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 ccaccytcat tetecatate acteccagga gttaggeaaa aageceette egttetteeg 300
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agmatactgt ctagattett aaaatatttt catttecate atggttataa caaatttget 180
gcatgcccaa actgacaaca gcaatcactg agggaacagg ttttgaatct ttctttgtg 240
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    caatcccaga gtttgttgtc tttttttctc tctctcattt aataggttga attttcttt 360
    cotagiting aatgracaca titicating titicagitaa aattitingto attatoccaa 420
    accaatctat gettacattt atacgtttgg tttettttat tgttgttata agtatettta 480
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                                                                                                                                                                              521
    <210> 1475
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<212> INIA
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                                                                                                     ing the same of the control was
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<210> 1476

<211> 118
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La companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya del companya de la co
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 tetgeetetg ggtgggggee acaggactgg tteagteetg etetggatgg agteagteag 120
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                                    and the state of t
<210> 1478
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<213> Homo saniene
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                                                                                                              or transfer
                                                                                                               alitest ( )
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gagattattt caagttgaaa atcagtctgc acaagaaaag gttaaagtga gagtttctga 300
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acgtaagcca agaatgtett cagatgetaa agaatttate agtateataa ateeteataa 420
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ggaaceatet tegttteece tttgaactee cagtgggatg cectaceetg egeecttagg 180
acceggactg acceptgtaca asactttacg tgccasaatt ctcagtgaat ttagetttet 240
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atttgtatgt agttttaatg tcacctataa caaaatgtgt ttggtagcag attgtccaga 360
aagcatttta aatgaagagg tataaaccet taagggeeka aattetgtat attagattac 420
tettaaacga aaaaccaget geegetttta tgtacacata ttacatacga gtaggeagea 480
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   actecteaag gaettggagg etaaacatga agaatataaa attaagttga caateactgt 240
   etectgeata acaetgaett caettetett gagaaatgtg catetgetaa tecatattta 300 -
   tractitita ggggtgggtg aacccataaa taagatactg ttctttgaat gcctttagct 360
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  attitiction aggictgoga cagtogactg acagaagcag tgttgagacc catcacaatg 180
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  agetggaeet cattgeatet etggageaga aggetgagat ttgeagtgtg ttecceaett 360
  caatcaaaat tcattaattc cagageaaga teccaagtgt teatfeecaa aatceteate 480
  gacettiget gigatteete attitetgéa aaigggitea aagigteege caggiettie 540
  eggtagacat atattegace agatgeeteg ag
                                                                                                                                                                     572
                                          (1-\epsilon)^{2} \operatorname{dec}(-1) = (1-\epsilon)^{2} \operatorname{dec}(-1)^{2} \operatorname{dec}(-1)
 <210> 1485
<211> 451
<212> DNA
                                                                                                                                                          The state of the s
                                                 Carlos Carlos de Arres de Carlos de 
 <213> Homo sapiens
                                                 والمراجع والإستهجار والرواري والروار والمراجع
                                                              e produce di salah s
Salah sa
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 georgiatti ticatgitgi terteageee teteggeatg giceggaggg gaeggeaget 360
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gttctcagaa tcccttaaca gttgtattta acagaaattg tatattgtaa tttaaaataa 180
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agtatgtatt atteacattt aatagaetta cagggataag geetgtgggg ggtaateeet 360
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 gettatatet ggeetetget ttoteertta attgtaaagt aaaagetata aageagtatt 540
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 tacttctatt tgaatttcta tatttcccat gtggttttta tgtttaatat taggggagta 180
 gagccagtta acattraggg agttatctgt tttcatcttg aggtggccaa tatggggatg 240
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 actitaaggt tiggageact tacaaggetg tggtagaate ataccccatg gataccacat 480
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     teatectett geeggetetg tggtetgeaa acceagagag eagatgettt geteageget 180
     egtaccaege caegeaceca catgetetet ttgtacetgg gtttgaacec acaggteggg 240
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                                                                              (iii) An interpretation of the second of 
     <210> 1493
     <211> 393
<212> DNA
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Sentencias ellas ellas ellas ellas ellas
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   tgtattggga ttttatgttg ttctgtcgtc ttcagcacag gtagtataag gttatattac 180
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   gttgageett tgeetagteg gggeeagaee eeteagatgg ggatateeet gggggageee 300
   ggtgctgaac cagaagaggc ttcctggtgc ttctgtccta ggccaccact cctccagccc 360
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                                                                                                                                                                                                                                                                                                   393
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                                                                    And the second of the second o
   <211> 269
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                                       and the state of t
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 asstacegtt tttctttgas ttggtagtac ttcagastct gagtgtctta acagtcattg 180
  tgttagtaaa tttgagtgcc tcctgtatgc tgggtattca agatgctaag gatccatcca 240
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 aaaaaaacaa aactcattag agtgttttaa attgaatgtt tgccttttac atatatttgc 240
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Alignature of the second
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 cctatcttta aacatttcaa tgtcagcctt tgttaacctt aaatacactg aattgaatct 420
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                                                                † 220
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Kamada di K
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   acaacetega g
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caaagccatt ctgatggtcc tagtggccct tatcctcctc cactcagcat tggcccagtc 180
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 agcoagtett eteatggege acctgtegte tatecaactg teagcactea tagttetett 240
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Caaaatette cogtggette tecteteace eggaatecag ettgaagaat aaceaetace 300
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    tattgtctca gatatctaaa gaatccagga gtacacctgg tgttggccac tgggtgatgt 180
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                                                                                                                                                                                             April 18 State of Park
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  <220>
                                          and the second of the second o
 <221> unsure
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                                                              in a judgawa kata ya ta ya ta
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 ccctgaactc gag
                                                                   373
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aσ
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cotettttt tgattgttca tttttattgc tttgtttatt ctttcatggt tcaaattcct 300
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    cgaaaatgag gatgaagacg atgatgacag tgacaaggaa aaggatgaag aggacgaggt 180
    cattgacgag gaagtgaata ttgaatttga agcttattcc ctatcagata atgattatga 240
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   tgagttetet aaatgtggtg aaaatgacaa caatateeet cacacecage aacagtaaca 180
   cccctcttaa acattctgcc tcagtcagca gtgctacagg aacaacagaa gaatcaagga 240
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  gcagtgcggg gggaacatet gctgtggaag tcaaagtgga tctcgag 347
                                    The part of the case of the second of the se
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Transportación de la Caración de la
La Caración de la Car
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aegtgeggge agetgetget tetgegetae tgeggttaeg gggaggaeeg cagggeegae 180
 ttotggtgtg acgtagtcat cgoggatttg caccogtgg ggtggtgcac acagaacaac 240
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   ctcctggagc ctgctgccag ctctcttcc ccagatcaca aaaacatgga aattgaggtg 180
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   contengent totaltoaco congoliata ggooteetta otgaloacoa egaatocotg 300
   gataatgatg tigccagaga gateegeta: etagatgagg tgetagagge caactgetgt 360
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  cactaaagcc aaccatgcgg agaagcaccc tgggtctgtg cotcoctgtg ggtatagtcg 240
  gtgtttatcc agaactagaa gatacaatag caagggaaga tacaatagca agcattgctg 300
  aatgoracag tgtaacacto tgaggotttt tgtgaatgaa ttcatttagt coltgtaaac 360
  ctctgggggt agctcaccat tctgtctcca ttccacagat ggagaatgag gcacagagaa 420 -
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agestatata tatataagtg tatatatata atgtattat atsaagsagg caastagag 240
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<211> 128
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taatcacatt ttttgttctt cattctgttg atttatcatg tttattgttt tgtgtatgtt 120
              out the second second appropriate the territory of the second second second second second second second second
ccctcgag
                                                     . . . .
                                  The second section will
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caagcatgat gaaagtattc gaagggacat ggaacagatt gaacaaagaa aagaaaaagc 180 🐇
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<211> 366
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cacacctete aaaaccttte titteeatte tateacteag titeatetet cetggactae 180
tgctctccga cagggttttc agccttttgt ctactactcc ttcaaaccat cccaaacctg 240
ctattacasa caacattcas asatcagasa tttgatcatg gcactccctg tcacsastcc 300
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                                                               366
<210> 1569
                                        (x_1, x_2) \not\in \mathcal{C}_{p,p}(x_1, x_2, \dots, x_{p-1}, x_{p-1}, \dots, x_{p-1}, \dots, x_{p-1}, \dots, x_{p-1}, \dots, x_{p-1}, \dots, x_{p-1})
<211> 236
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<213> Homo sapiens
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ttttttttt tatctctgtt tctagagaca gcaaccttat cagtccagca gatcttaata 180
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 <213> Homo sapiens
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<211> 238
<212> DNA
<213> Homo sapiens
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<211> 219
<212> DNA
<213> Homo sapiens
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aaaaaccagg gatttatttc aatcttgaaa taattgcctt ctgtegaaca gtttaaaatc 180
atacagttag caaaaattta agaataatct aaatgaaaat tagaggggca ctcgag
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<213> Homo sapiens
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  gatattgetg teattggaag actgtgeeag aaggtaaatg aaggtgggtg taatgtttea 180
                                                                                                                                                                         a the
  tattagaaaa atcctcgag
                                                                                                                                                   199
  <210> 1576
 <211> 243
<212> DNA
<213> Homo sapiens
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 tgtaaaggta aatccatcaa gaatatctaa agtcagggag gaaaaaaaaa gaatttagtg 180
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 atcatttcca tgtcattaga agataagtgt atctttctga gggctaaggg tcatgctgag 180
 ctagaaggit gcaaggcigg agaggaagtg cottototo agogtcagca aaggcigogg 240
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 geagggeteg ag
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<212> DNA
<213> Homo sapiens
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                                                                                                                           Compared to the second of the second
 teateatite etgetaagtt gtaatgttae etgettete ettagtetet agettatetg 120
 aattttattc tgttattgcc gcacaaatta ttatcaagtt ccactttggg ctgggcgcag 180
 tggctcacgg ctatagtect ageactttgg gaggccgagg cagactcgag
                                                                                                                                                       230
                                                                                                                                                                          100
                                                                                                                                                                           Application
 <210> 1579
                                                                                                                                                          \nabla_{x,y} = \frac{1}{2} \sum_{i=1}^{n} \left( -\frac{1}{2} \sum_{i=1}^{n
 <211> 233
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 <213> Homo sapiens
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 gttcccattt ttgtatcctg cctcataccc caagtctctc atgaagtggg gtcctgcttt 180
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 ccetgcetgt geagacetec accettett cctccacece tecatecec aatgettgta 180
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 <213> Homo sapiens
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geeeggeeee tegeeeetge etggeaetge teacegeeea aggegaegee ggetggaeea 240
ggcactgetg geetttetee tgeceggeet eggaaceage ttttetetet taegatgaag 300
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<210> 1584
<211> 266
<212> DNA
<213> Homo sapiens
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Egigeetgge agigetgact atgactactg tgccatctgt etgtgacett gatgteaggt 120
acctggccat ggggctacca gcaaggatgt gcaaaggaag aaccgctgcc cctgccctca 180
getteettat geeegageea etaettatee gtgaatgtga gtgeeaagag aaacetaatt 240
tggtggggaa gccaaggcat ctcgag
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<210> 1585
<211> 298
<212> DNA
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 cagtgaacac teccagteac catgeatagt ggaaagette aagaaataag aataataata 180
 aaaaagttaa aactataatg ataacttggc cgggcacact ggctcactcc tgtagtcccg 240
 gcgctttggg gggccgaggc gggcggatca ctcgag
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 <211> 186
 <212> DNA
 <213> Homo sapiens
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 ctcgaa
                                186
                                                                                                                 1000 1000
                                                                                                                 <210> 1588
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                                                                                                                 Service of the service of
                                                                              <212> DNA
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gactaagtgg gggcagcagg tittgaatet gggtggactg cagctggaac ccacatactt 180.
aatccatacc ctagaatcta ggtaggaaag agaacatgct ttatctgggg cccaggaaat 240
gactytygga gycaytycaa gyaattyagy ccaytyagyt gygcaygayy ccaatyatca 300
eggeceettg ttgeetttge aatgeagttg ggtacatgtg acagteattg aagaatgtea 360
aaggtcaggg atgagattgt atgacatgat cagacetgtg ttttagecag atcacteegg 420
                                 The first of the second of the
<210> 1589
<211> 410
<212> DNA
                                                                                                                                      . . .
<213> Homo sapiens
                                                                                                                                         100
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ccatttacat gtttgtgttt ttctatagca gagcattata ttttgcatta tatgtttcaa 240
cctagtetaa gtgggtettt tttacatttt teaagaacgg attteetgga atacagegat 300
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<211> 318
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 ctgcagecca ececteteet teetegag
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 <212> DNA
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ggttacaagg taggaacaga gttttaaact tgtacaaagt ttaatcattt caaattttgg 180
cattgtttta aaagacaaca ctattctigga taacctggtt tcttcctgat gaacagtttg 240
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gag
                                                                   303
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aagetgatae titgetitag atgicagiet egitaceage ageetitiga eccaacaaeg 180
gcactegag
                                                                   189
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<211> 291
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<213> Homo sapiens
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ggcagtggaa catectgtgg gaagcactgt catgtgggta cctcagagec tgccetctct 180
tttcagcctt acctcactgc acagctccag ccaaagggcc acgtgcacca aagggtcaca 240
cetgaceage ttttaateat tecatacaet gaaatgeett cacteetega g
<210> 1595
<211> 416
<212> DNA
<213> Homo sapiens
<400> 1595
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ttggaagget tegaagagga eggagetgeg etggggeegg aggeggeega ggaagteett 180
        cegaggttgg agactettet geagecaagg aaaaggtege ggagcacatg eggagactee 240
       gaggtggagg aggagteece aggaaagege etggaegeag gtetcaecaa eggetttggg 300
        ggtgcgagga gcgagcagga gccgggcggc ggcctgggga ggaaggccac accccgacga 360
       cgctgtgcct ccgagtccag catctcctcc agcaacagcc cgctctgcga ctcgag 416
        <210> 1596
                                                                        Paragraph of the paragraph of the contract of 
        <211> 297
                                                                                                                                                                                               and the state of t
        <212> DNA
       <213> Homo sapiens
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      acatematac coattttgac gtgaatatct, aaagtgttat gaaaccaact acatatattt 120
       ttaaaatget ggggeteata egtgaagggt gageaetgtg ggeaaatttg gaaagattet 180
      ctacatttaa agattattta agggactggt attatatgca caggataggc taaataatca 240
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      <211> 217
      <212> DNA
      <213> Homo sapiens
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     taatggtcat attaacteta gaatttggag actettgagt trettrett trettrett 180
trtggagaca gagteteget etgteeceaa getegag 217
   <210> 1598
<211> 403
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<213> Homo sapiens
    <213> Homo sapiens
                                                                                                                                                 ing the state of the second of
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    tatettatet tittggattg etettataat aatgaactet teetgtatag gtatgaaate 180
   accagaagaa caactggtgt gtgtgccacc acaggaggcc tttcctaacg accccgggt 240
   aataaataga cagagaagtt etgattacca gtttecatee tetecattta cagacacact 300
   adagggcace actgaggatg acgtgttgac aggtcaggtg gaggagcagt gtgtgccage 360
                                                    gageegeetg cagtgagegt aaccaegete gag
   agcagaggca gagccgcctg cagtgagcgt aaccacgctc gag 403
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  <211> 117
   <212> DNA
  <213> Homo sapiens
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 <210> 1600
 <211> 103
 <212> DNA
                                                                                            (f_{i}, f_{i}, f_{i}, f_{i}) = f_{i}(f_{i}, f_{i})
                                                                                                     Table 1 to the state of the sta
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 aggaagcatt aaattgggcc ataggaagga caagtcacat ccagtttagt gatcaatggt 180
 ggtttgggaa agaaataaca gaattctac: cctacatgat agggagagac tacagaggcc 240
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 <212> DNA
<213> Homo sapiens
<220>
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<222> (592)..(601)
<400> 1602
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atatggttca ttaaaattat tttttttctg atacattcta attaacatga aatcctttat 240
gtactgcact agctttaaaa aataataata attttaagag actccaatga acattaatgc 300
attititat tiatgcacag caattatatt ccagaagtga gaatcatgtc aattcccagc 360
cttcgctaca tgaaggttag taccttgctc attaacagga agaaaaaggg attgatcaat 420
gatgtgtgta catgtgtatg tgggtggcag tgtgtgtatt tggcacagga tccagtgagc 480
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ntgagtactc gag
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<212> DNA
<213> Homo sapiens
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<212> DNA
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geggttetgt ggatggagtt ataaaggaag tgaatgtgag cecatgeece acceaacect 180
gccagctgag caaaggacag tottacageg toaatgtcac ottcaccage aatattcagt 240
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ttcctgagcc tgatggttgt aagagtggaa ttaactgccc tatccaaaaa gacaagacct 360
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atagetacet gaataaacta ccagtgaaaa gegaatatee etetataaaa etggtggtgg 420
        agtggcaact traggatgar aaaaaccata gtrtcgag 458
                                                                                       and the control of th
       <210> 1605
       <211> 416
      <212> DNA
      <213> Homo sapiens
      <400> 1605
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      tcatgagaaa gaaacaaaat atcaatttat agtagttgat ggtgttataa atccagaaga 180
      agetetataa eattataaaa ateaagattg gttgeteaca ttttagagta eeaaaggeag 240
     caaaatgatg taatttataa ataataaatc ttaaactgtt gataaaccaa actctgaagt 300
     attittaaag aggittatic taagccaatg agigaccata gcccaaggag cagictcaag 360
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     <210> 1606
     <211> 242
     <212> DNA
    <213> Homo sapiens
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    <400> 1606.
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  cattatgace agagtattge egeggtggaa atggagcatt ttetteetet egeaaatetg 240
  gaatgttcac caaacattga aacttteete tgcaaageat ttgtaccaac actcgag 297
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gadaacatet ggagaggdat cetetetgtt attitettet tiettateat cagtgtgtta 180
gettteecea atggteegtt eactegacet cateeageet tatggegaat ggtttttgga 240
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aaatototaa tgtattggot agatocaaat ottogatacg coacaaggga agcagaagto 360
                                                                                                The control of the co
                                                                                                                                                                                                                                                                    2 1 3 W 1
                                                                                                                                                                                                                                                                                                                                            Control of the Contro
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adateagraa ettitataae accettetee caaaaaaaaa cettaetita tractitate 180
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   cctctgaagt gatcctgata tettgccaaa gttgtgactt taatattctg tggcttgtaa 180
   ttgtgatttt tctaatacca gagtagaatt ctggggagga atttttctaa acccaaatac 240
   ctcaatttga agtgaggett ggetttaaat aataacacat ttgagtttga getttteetg 300
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   attgitgtet tetgittgit tgittgittg titgittgit tgittitat ggicaggeca 120
   cttgtctata gtcctgctgt ggtttgcgtg ggtctgcttc agaccctagt tgcctcagtt 180
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  <211> 163
  <212> DNA
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  actggctggg ceeggtgact caeacctgea gtccgaactc gag
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  <211> 292
  <212> DNA
<213> Homo sapiens
                                                                                                                                              AND LONG BURNES
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  acaattgaac tgtttccact geaccegtee taacatttet ttttgtetea tttetetttg 120
  tggctaatta ttaagataat ataaacttgc attaataaat ttaatgagaa agtgtttagg 180
 ctatgtgtgg cageteacat etgtaacccc aacaetttgg gaggetgagg caggagaate 240
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                                                                                                                                                                                  292
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                                                           A Committee of the Comm
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 tttctctgcc ttttctgtct tgtcattggc tctcccgccc tcctacacgc accccgcctg 120
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 ggaagaatga attectgaca cacettett tgggtttttt tttggetttt geagtgeetg 180
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anaggtggcc tttgtgtcac ccacttaccc ctcctctta gctcctgggg cagacatctg 240
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   angagtacca cagnamactcg ag 202
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   <211> 219
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   <212> DNA
   <213> Homo sapiens
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  atacaagaca teetateaat geeagtetta ttttegetag gaetetgett ecacagtaag 180
  ctcctaaggt gctcacccaa cccaggagaa aagctcgag
                           the second transfer of the second second
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  <213> Homo sapiens
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  etegetatet gaaggtggte aageeatetg gggacteteg gatgtacage ataacettea 240
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aatototatt caaaattgto cocagtotat tttgtgggac ttgaaaaaaa tcagataaag 180
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```
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acaagtaaga attaaaatat aggcccgttg ttccataatg aaatcctata atttggccat 180
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<212> DNA
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  gegtgtgtge tgtgaccetg ggcaacttag categetgag ceteagagte agtgtgtaga 180
  attatctaag gggcttgtta caagatgccg gcttcccacg gcttttgtca gtactcagtt 240
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 <213> Homo sapiens
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gaattegegg cegegtegae ceggagtact gttggetace cetetgettt catteeaaga 60
 183
                                   inge men geliggere in der sich der sein der Siegen in der Siegen in der Siegen in der Siegen in der Siegen in
Gewicht der Siegen in der Siegen
                                                                                                                      4.45
<210> 1638
<211> 241
<212> DNA
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<213> Homo sapiens

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   ccattgacat ttaaaaaaat aatgttttat ggtggaatat tettcaaaaa atactgeete 180
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  <211> 235 .
  <212> DNA
                                                                               to the second of the second of
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Penamban penamban penamban penamban di penamban penamban penamban penamban penamban penamban penamban sebagai
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 <210> 1647
 <211> 357
 <212> DNA
                                                                                                                      ing and the state of the state 
 <213> Homo sapiens
                                                                                     •
                                     4. 6...
                                                                                                                                              : . . . .
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 ctggggctgt gcgggaactc cttttcagga gggcagcctt catccacaga tgctcctaag 120
 gettggaatt atgaattgee tgeaacaaat tatgagaeee aagaeteeea taaagetgga 180
cccattggca ttctctttga actagtgcat atctttctct atgtggtaca gccgcgtgat 240
 ttcccagaag atactttgag aaaattctta cagaaggcat atgaatccaa aattgattat 300
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atgetttetg tgtttggtge tecacetaae aaagtgtetg tttttgeeet accaagtget 180
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ag
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++
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actgactggt atttccagtg tecccatacg tagttctaat agggttacta atattttaat 240
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<210> 1652
<211> 221
<212> DNA
<213> Homo sapiens
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Cagatattgt ctttgcagaa aatcttagtc gatctctcga g
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<211> 319
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eccagaettt atttaaagaa aageagttta aaatagatte ateacatatt tagttttaaa 180
tecceaatte agtitietti giitalagea aleaaattat taaatatate etattataet 240
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 agataagtgc atgetteena aatetttaga gaagcatgaa aaagatttgt actttetgae 240
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 ctatgtettt tgaagattet agtegaatea teceaetett ttatetttt ageteettgt 180
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accenteteg tetragetta tectgetgea agratggaet teccacciet ggaaaatgtt 360
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cagagatgaa ttcaacctcc agaagatgat ggtgatggta acagcctcag gcaagctttt 480
tggcattgag agcagetetg geaccateet gtggaaacag tatetaccca atgteaagee 540
                                                                                                                          585
agactectee tttaaactga tggteeagag aactactage tegag
                                                                                                                                       St. M. Carlot
<210> 1657
                                                                                                                                       100 100 42 2
<211> 340
<212> DNA
<213> Homo sapiens
                                            Control of the second of the control of the second of the 
<400> 1657
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catacactca gtgcagggtc tgaatgtccc cccaaactca tatgttgaac tccaaatccc 120
caaggtgttg gtattagatg atgtagcctt tgggaaggaa ttagggtggt gccctcatga 180
atoggatttg tgtcattata aaacaagccc aaagaaattt ggtcacccct teetttaagc 240
gaggtcatgg caaaaagacg ctgtatatga accagaaaat gggctctcac tagacaccaa 300
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cagtgtcaca gtcagccaca cagcagcctg taactgctga caagcagcaa ggtcatgaac 180
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```
ctgtctctcc tcgaagtctt cagcgctcaa gccagagaag tccatcacct ggtcccaatc 240
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<211> 129
<212> DNA
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gtactcgag
                                                                   129
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<211> 245
<212> DNA
                                                                Ť
<213> Homo sapiens
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ccgagggttg gctctctcca acaggcagtt acagcttgaa ttctgcttct tccccaagac 24D
tegag
                                                                   245
<210> 1662
<211> 266
<212> DNA
<213> Homo sapiens
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ttoggagaet tttgcaaaat ggaaaacttt totgcacaag agaaaatgat cotgtgcgtg 180
gcccagatgg caagacccat ggcaacaagt gtgccatgtg taaggcagtc ttccagaaag 240
aasatgagga aagasagaga ctcgag
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<212> DNA
<213> Homo sapiens
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cccccactcg ag
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 agragatetet tgtagetgat gecacateag etttaagtea ttaggaagat attetaggee 240
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gggagcagec ggaagtgttg tacteggetg tetattgtgt gtgggagagt etttetgttg 180
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<212> DNA
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agattttttt tgaatctatt tcattgtgtt tgtttttcat gttggaacaa tctctctgga 180
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<211> 202
                                                                     BUDGE SHOULD BE STOOK A
<212> DNA
<213> Homo sapiens
<400> 1667
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tgcctctccc tcctccctcg ag
                                                                     202
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<211> 275
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<213> Homo sapiens
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tetttaaaaa attettetee taatetetgt gttggteaat tetgtgtett tettetett 180
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<210> 1669
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<211> 286
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<213> Homo sapiens
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aacttcccag caacactett caaaatetga ttccageete etggtacagt gtcatetete 180
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agtgtcagaa tctgggggag gaagaacaat taaaaaaagaa ttaggggttt ttattggtaa 180
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<211> 240
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<213> Homo sapiens
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<211> 274
<212> DNA
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tagaatatet tteccaattg ttacagtgac atatatgetg caatatttaa caactggagt 180
attagecaca tgggttattt ttteaaterg tgttttgaat ttttttattg tgtgttattt 240
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<212> DNA

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tatggttget ggeatggtgg tattetatgg aggtgegtea etggtgtace geetgeeeea 240
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ataaaaatgo atatocagaa aatttttgtt ataataacat toagoaagoa catagtggag 240
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<211> 275
<212> DNA
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```

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gggtgtccat agtggggaag aactccaget caccaccact atcacccatg tggacggacc 180
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    <210> 1684
    <211> 274
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   <400> 1684
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   gatgaatgta caatgtacct ctcccatgag cgaggacgca agggcagtca tcaccgcttt 180
   atcacagaga aacgagtett taagaactgg geacggacat teaatattea ettttteaa 240
   ccagactgga aaccagaatc acttgcaact cgag
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   <210> 1685
   <211> 222
   <212> DNA
   <213> Homo sapiens
  <400> 1685
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 atcetggteg ggatecetge accteggete catteacteg ag 222 <210> 1686
                                                                                             and Albert Comment of the second of the seco
  <211> 197
  <212> DNA
  <213> Homo sapiens
 <400> 1686
  gaattegegg eegègtegae tagaceagee tetagettae etgeeaataa attaaaatat 60
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 accasataat ttaaaagcat ttttaataga cttttaaaaa tatgctaata aaatctagtt 180
 atetectgta cetegag
                                                           again mendalaga an keralah menjadi dan dibendikan dian berb<mark>ada 197 dalam mendengi</mark>
Perperangkan dan pada keralah mendalah mendalah berbada keralah perpendangan berbada berbada berbada berbada b
                                        <210> 1687
 <211> 328
 <212> DNA
 <213> Homo sapiens
 <400> 1687
cetegtgetg geogratiga tygootgeat categtottg ggotteaact actggattge 120 gagotecegg agegtggace tecagacace dateaters of the control of the control of the category of the category
gagetecegg agegtggace tecagacaeg gateatggag etggaaggea gggteegeag 180
ggcggctgca gagagaggcg ccgtggagct gaagaagaac gagttccagg gagagctgga 240
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caacaagetg taccaggacg atctegag
                                                     <210> 1688
<211> 379
                                                                                               la Marketta esta esta de la companya de la companya
<212> DNA
<213> Homo sapiens
                                                                                                                                                                                                             0.1
                                                                                                                                                                                                             x \in \mathbb{R}^{n} : \mathbb{R}^{n} \to \mathbb{R}^{n}
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atattgaaaa acttatgaga ttttcaaada tgcacaaaac agggaacagt ataattaacc 180
cccatatgtt cattacacat attcaagagt caactctcga g
                                                                   221
                                                                ÷
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<211> 320
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<213> Homo sapiens
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<213> Homo sapiens
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atttattacc acactectet gtggatetat agactectet acceageact gtaatggaca 180
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                                                                  225
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<213> Homo sapiens
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tagacttttg tegggtettt ecaaagtatt caactteatt titattaaag aaaaaatttt 120
  ttttctcctt tatatttcat tagcttactt gatattctat camartacct atgtcaataa 180
                                                                                                                                 196
                                             and the Market of the Alberta State of
                                                                                                                                · · .
  <210> 1694
                                                     <211> 222
  <212> DNA
  <213> Homo sapiens
  <400> 1694
  gaattogegg cegcgtcgac gagagaaatg coatcatget tactgetett ttggattett 60
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  ccacatgtgc acacacgggt gtcggtgcaa ctcaccagca ggtgtgcagt aggcaagctt 180
  gaaggtggcc catgettete tgttgtcaca caacaceteg ag
                                                                                                                               222
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  <211>. 233
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  <213> Homo sapiens
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 aaaactitat gtttgctttt ttgtgtgtct gtaaagggtt atttgccatt ctgtgtcagg 180
 ttttggtgtt tagttgcatt ctacttactg cgttttgcca agcacaactc gag
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 gtaacctggt cttgttgctg ctgctgttag ctatgggaag tatcagggga ctaagtatta 180
 ttttatttat ttgtttgttt atttctatgg gttttcgggg ggcactcgag of held in 230 for
                                   and the second of the first of the second of
                         and Market and the second of property of the second of
The second of the second of the second of the second of the second of the second of the second of the second of
 <211> 210
 <212> DNA
 <213> Homo sapiens
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                                                                                                                                                   41.00
gaatteggee aaaaacetae ceaeteetgt getaceeage eecagaggea gaageeaatg 60
                                                                                                                                                  19.7%
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acagggtaag ggggtgette cagectecta acceaaagee agetgtteea ggetecaggg 180
gamaaaggtg tggccaggct gctcctcgag
                                                                                                                                210
                                <210> 1598
<211> 179
<212> DNA
<213> Homo sapiens
<400> 1698
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aataaataaa acattcaatg titticicci titcictctt attactictt teetiiggea 120 🖟 .
ttttcaattt gaaatgettt eetteggttg ttggttttat teteccecaa teectegag 179
<210> 1699
<211> 224
<212> DNA
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<213> Homo sapiens
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gcgtacttga agtacagttt ctgctgaata catgttgctt ttgcatcttg gcaaagtcaa 180
aaactetaag teaaacaate ataaateaaa ceatgacaet egag
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<211> 202
<212> DNA
<213> Homo sapiens
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getgaaactg atgaaceteg ag
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<211> 106
<212> DNA
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                                                                   106
<210> 1702
                                                               *
<211> 327
<212> DNA
<213> Homo sapiens
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atgaaatgat agtgataagt totgoatata gggttgttac gasaattasa tgagataatg 180
tgtaaatcaa ttagcacagt gtctcacacc tagaatgcac tcaagaaata atagccacta 240
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<211> 167
<212> DNA
<213> Homo sapiens
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tttgcaggca acaaattcta taggcctttg ttcctctgaa aatatcttta tttcatcctc 180
```

```
agtatactit titetgggta tggatteetg ggtttgeagg gtatteeeac ttgteegagt 240
     tttcaatata ttcagttttg aagatgttcc attggcctcc attattttct atgaaaagtc 300
     agetgteaca etegag
                                                                                                                                                                                                                                                                                             316
                                                                                                                                                                                                                                                                                                                            1,100
     <210> 1705 .
     <211> 311
     <212> DNA
     <213> Homo sapiens
                                                                                                    ngang gasa sesas international and sesas energy in the
    <400> 1705
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    gaataatgca gaaatcacat tatggccttc tcagggtatc atgtttgaag gtgtgcctag 120
    tytecattta treetettty graatyttaa tritigattae eetyteaaya tyrigtyyg 180
    tttttccctt ctataattac tgotctttcc cetetecctt gagacgaata agcaatctgg 240
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    gtaagctcga g
    <210> 1706
    <211> 235
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   aaagaacaat atgaagatgt gggctctagt cactgttgeg ttactaagtt tctatctgtt 180
  acctagaata agteatettt taaggtetea gattttteee actaggaaac tegag 235
                                                                                                                                                                                                                                                                              1 100 garage
   <210> 1707
   <211> 232
   <212> DNA
 <213> Homo sapiens
< 1707</p>
< 2008</p>
  gaatteggee aaagaggeet agtttggttt tgecaaagga ttatcaactg agetattatt 60
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  tgtgtttetg ttatggetgg etteetgtea eecceatgaa aataeggeag tateagagat 180
 aagtaatcag gtaatatcag agataagtaa tccatcgaaa gcccaactcg ag 232
 <210> 1708
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  <212> DNA
                                                                                                                                                                                        and the ground of the second o
 <213> Homo sapiens
<400> 1708
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gtcatgttge aggectagea actetggeet tgtcaeattg catetetete caeteccegt 240
                                                                                                                                                                                                                                                                                                                            gctaccacta atcettcagg actgagatte aaggetttge tagtaagagg ettggaaata 300
atcatataaa acataatagt gtggcatggc aagctcgag
                                                                                                                                                                                                                                                                               339
<210> 1709
<211> 188
<212> DNA
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                                                                                                                                                                                                              (\sigma,\sigma) = (\sigma,\sigma) \cdot (\sigma,\sigma
<400> 1709
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attittiga gacetegeag geetigaget tgteaccate teceteagae agaceagige 180
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gagcaactcg ag
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ttattaccet gttgccagge caccgggtcc ggcccagcet tgattetteg ggaateactt 180
etecetegee gegeetgtta etgeetecae ggateaetea teetegag
                                                                   228
<210> 1712
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tetteagate tteeagtgag tgtteettet egttttatte ttacetteet tttggcacaa 180
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<210> 1715
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ctegeattyt cacetggger geagtgeggt ggegeggtet tggeteaetg eggeetetge 180
ctcccaggtt egggegattc tectggtteg geotectcag tagetgggat tgcaggtget 240
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                                                                  214
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                                                                   217
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anggtatete acatttetet gaggeteegt teatttttgt ttttattgtt gttetatttt 180
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atctcgag
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                                                                  228
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<212> DNA
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agttaggata gaatgigitt cittciggit aaaaaaagga aaaaccatci aagaaaatat 180
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atatgtatgt atgtgtgtat acagtggaat tcaaaggacc aaagcaaaat ttgaacagga 240
   ttcctcgag 249
                                                                                       Committee of the committee of the
  <210> 1726
                                                                                                                                       <211> 436
   <212> DNA
   <213> Homo sapiens
   <400> 1726
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   gcaaggtcca caccaaggag catagaaacc aatcacccaa tgatttttcc cttgtagaac 180
  titttcactg aaagtotgag gtgttagato tgtggatact tgaggtaaaa atcctagacc 240
  ccagattete agggaataag catecetatt ccaaccattg taactgtgat actgataage 300
  tttatttgat tttgggggaa aaaatcttat ctcagggtat ctttgaacgt tttcctgggc 360
  acaaaaagaa tgatactgtt ggcaatctat actgcccacg ttgatcagtc cagttaatgt 420
  cogggccgtt ctcgag
  <210> 1727
 <211> 367
<212> DNA
<213> Homo sapiens
                                 Allegar (pj. vikushi) — salulus se umum
Shimin — mara sarat visit gʻillisi sili salishi
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  gatetettat ettgecettt tactgeegta caaatteeet etteeteetg ecceateett 120
 aacctctgac aaccactcat ctgctgtcga tttctgtaat tcagtcattt caagaatgtt 180
 acataaatgg agttgtacag tatgtaacct tttgagactg gctcttttt cactgagcat 240
 aattototgg agatttatot acattatttt atatatatoo atggattgtt cotgtttatt 300
 cotgagtaat attocatatt atggatgtat cagtttgttt aactgtttag ctgttgaagg 360 ....
 actegag
                                                                                                                                                                   367
 <210> 1728
                                                                                  Berger (1997) (1994) (1994) (1994) (1994) (1994) (1994)
Herrican (1994) (1994) (1994) (1994) (1994) (1994) (1994)
                            <211> 225
 <212> DNA
                                            The first section of the section of 
<213> Homo sapiens
                                                       <400> 1728
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 aaaaaaaaaa aaaggtagcc ctttactatt agaccgattt cttccgcaat acagagcagt 120
 cttttctcat ccttggagec agateaccat ccaaaaacac tegag
                                                                                                                                                                  225
<210> 1729
<211> 352
<212> DNA
 <213> Homo sapiens ( ) - Call to the control of the
<400> 1729
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tttaattatt ttaacactcc agaggaggac tggttttctc ctgtgttttt ttaatatatg 120
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ttatcagttc ccactttctt tgctgcattc tcaaatgcaa cacaggagaa cagctttccc 240
ttgcaaattc acaatgctgt taactatttg tcctttatta tacatttcat taaagttttc 300
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<210> 1730
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tgggcaaget etteagaage tegag
<210> 1731
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<221> unsure
<222> (25)
<220>
<221> unsure
<222> (306)
<400> 1731
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ctaggeetat ttetgeatgg gteggagagt gggegggact getttaetga gttatagtga 180
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<211> 328
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aataaactag actotytyto ototyaatta aacaccaaty agcacccaaa agtttagact 240
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<212> DNA
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cgtgcttgag cctcactttc ttctctggga gatggcggta ggcggggccg tggagagcag 240
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  cetectette cetecagtgg cagaaacece acctetgttg geecagtgte tttgaagaga 240
  gteetgagat geceetegga gtttgggtag ageeettgea ggeateeaga gaacaactgg 300
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                                                      production and a service of
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                     The control of the co
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gatggctctt ttgcaaagta catcetgttg ctattgtgtt tgctatatta gcagcaatgt 180
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<210> 1749
<211> 153
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<210> 1754
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<212> DNA
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<213> Homo sapiens
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<212> DNA
<213> Homo sapiens
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caagtggagg gettateage tgggeatatt catttteeet ttgttaagaa aaagaaccaa 240
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<211> 263
<212> DNA
<213> Homo sapiens
<400> 1763
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<213> Homo sapiens
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 <212> DNA
 <213> Homo sapiens
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<212> DNA
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ecatggaatg tttctgccca cccagttttc ctactgcttt atattgtgaa aatagaggtc 300
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<210> 1772
<211> 339
<212> DNA
<213> Homo sapiens
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ccamaatact acaaccamaa gcamaagtttt ccagttctcc agatacamtt tttttataga 180
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                      f 2
 <210> 1773
 <211> 292
 <212> DNA
 <213> Homo sapiens
 <400> 1773
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 aattaaatac actgitaatg tiactatatt aaatcigcic toigciicag cactoogcic 180
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ttaatatgaa gacatggtga taactaacat atttataaca tgaaatctgc tcatccagga 180
acatagasty caaatettte attecaetea geaaaatttt gtootgteet tgataaaagt 240
               - 10 151 1 1월 - 41일 11 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 6 247 중인
<210> 1775
<211> 270
<212> DNA
<213> Homo sapiens
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geocacteda ateotetiti tigiotagig detggeotgg taccaccago tectaggget 180 🛷 😁 🦠 👵
actggcatga gtgaaaagag cccagtgcta cccaacaca cacctaccac cttgtattct 240
teaaccacc ggaccacac gtetetegag 270

<210> 1776

<211> 251

<212> DNA

<213> Homo gapiens
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ttottaacgg tatgagatta ttttactcot tottottoot ttecetteet gteetgeetg 180
geotagagag gigeoetgee igicoctect geacceaecg teetitieea ageatgaaca 248
                                                    Hiller Grant State (1997)
State of the State (1997)
<210> 1777
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<213> Homo sapiens
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tgctttagga aaacgatgat tatatgttta tatatttacc atatagaatc tgtaacataa 180
tggtgaatgt cctgatgtct tctaatccga tcattaaact gatttagatg ggtggatgga 240
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 <213> Homo sapiens
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<213> Homo sapiens
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tgccagcacc atctctgatc agtctgcaaa cttagagcgg tcagcctctg cttgcaaact 240
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tettaccagg assactetge eccagastet gtetattase agaggtgsta accasgetet 360
ttcaaggtaa taatatgttt atattgagtt ttatactttc catgttccga ggtggccatt 420
ttcattgcat atgtcatecc actaacgtgg ctacacttat ttgtttgttg atgcctgaca 480
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<211> 218
<212> DNA
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tecteteeae teaaactttt cacteaatat etagtetaac aagetgttgg gtggetgeet 180
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<213> Homo sapiens
<400> 1782
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 tgctaagatc caagagacca gaccttctca tgacaccact gctgtcttct tgtcttcctc 180
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 <211> 106
 <212> DNA
 <213> Homo sapiens
 <400> 1783
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 <211> 149
 <212> DNA
 <213> Homo sapiens
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gectaatiga attetagace ggcctegag
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<210> 1785
<211> 158
<212> DNA
<213> Homo sapiens
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gtetteacea agagatgtta gttgcacett ttetegag
.<210> 1786
<211> 102
<212> DNA
<213> Homo sapiens
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<210> 1787
<211> 110
<212> DNA
<213> Homo sapiens
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tetteaacgg atactagaaa atgaaaaaga ettggaagaa geteetegag 110
<210> 1788
<211> 149
<212> DNA
<213> Homo sapiens
<400> 1788
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tegtgetete titteacatt etgretacag caaatgeate cittigeeac attgteecet 120
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 <211> 195
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gaatgettta caettteeac agaacagaaa etaaaataac etgttataca attagteaca 180
aatacagtcc tcgag
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<213> Homo sapiens
<400> 1790
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<211> 123
<212> DNA
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<213> Homo sapiens
<400> 1791
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tttaactgga ttgggttttt cetgtetttt tgcctgacca ettcagetge aagaaggete 120
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<211> 131
<212> DNA
<213> Homo sapiens
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tegtactega g
                                                                   131
<210> 1793
<211> 127
<212> DNA
<213> Homo sapiens
<400> 1793
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<210> 1794
<211> 107
<212> DNA
<213> Homo sapiens
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 <210> 1795 ·
 <211> 104
 <212> DNA
<213> Homo sapiens
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<210> 1796
<211> 118
<212> DNA
<213> Homo sapiens
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<210> 1797
<211> 106
<212> DNA
<213> Homo sapiens
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<210> 1798
<211> 124
<212> DNA
<213> Homo sapiens
gaatteggee aaagaggeet aaettaagta etaatattee agaaattttt gaaageagta 60
accttaattt cotatgtatt toattocact titigoatata ggtcaaatag caatgtgtot 120
              Stage to a composition of the William Stage to the 124 room of the
                                                           <210> 1799
<211> 155
<212> DNA
<213> Homo sapiens
<400> 1799
gaatteggee aaagaggeet atgaaaataa cetatgattg tatgttttge attectagaa 60
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<213> Homo sapiens
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ttggcttttt tttttcagg ttttagaata tttgtgttgt actggtgage tcgag 115
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 <213> Homo sapiens
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 <211> 199
 <212> DNA
 <213> Homo sapiens
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atcatacaga aacctcgag
<210> 1803
<211> 259
<212> DNA
<213> Homo sapiens
<400> 1803
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ceggegetee egeteactgt geegeacact etecteetge agegeeaget eegeetggåe 180
congetage egeceated eactgoging ggettectea etetraged engenterty 240
cagetgeetg geectegag
<210> 1804
<211> 138
<212> DNA
<213> Homo sapiens
<400> 1804
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ggatgggatg gcctcgag
                                                                   138
<210> 1805
<211> 103
<212> DNA
<213> Homo sapiens
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<210> 1806
<211> 110
<212> DNA
<213> Homo sapiens
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gaatteggee aaagaggeet actgttteea atacactggt agagtateea agatageeag 60
aagaataaag acgacaataa aacagtaaaa tgatcaggtg gtggctcgag
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<210> 1807
 <211> 156
 <212> DNA
 <213> Homo sapiens
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 ttgggagagg ggtctaggtc atcaggatac ctcgag
 <210> 1808
 <211> 102
 <212> DNA
 <213> Homo sapiens
<400> 1808
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 <210> 1809
 <211> 134
 <212> DNA
 <213> Homo sapiens
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ggagaatget egag
                                                                     134
<210> 1810
<211> 109
<212> DNA
<213> Homo sapiens
                 jugung menjada ang diakan menjada kalandaran kenalah menjada menjada kenalah menjada menjada berakan diakan be
gaatteggee aaagaggeet acttteacte ttgtaaaage cacatateca catetettte 60
attiticicas tyrgitatyc agcaattiat taaagtatti atticicgag
<210> 1811:
<211> 129
<212> DNA
<213> Homo sapiens
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<210> 1812
<211> 224
<212> DNA
<213> Homo sapiens
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caatgaaagc aaatcaatgt tgcagcttga gagctggtgg ggccttggcc catagcagca 180
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<210> 1813
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<211> 154

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<212> DNA
 <213> Homo sapiens
 <400> 1813
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 caactattcc tcagcaggtt ccttcaagct cgag
 <210> 1814
 <211> 139
 <212> DNA
 <213> Homo sapiens
 <400> 1814
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 ttgcagggaa acactcgag
 <210> 1815
 <211> 112
 <212> DNA
 <213> Homo sapiens
<400> 1815
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<210> 1816
<211> 153
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<212> DNA
<213> Homo sapiens
<400> 1816
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                                                                   153
<210> 1817
<211> 103
<212> DNA
<213> Homo sapiens
<400> 1817
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<210> 1818
<211> 118
<212> DNA
<213> Homo sapiens
<400> 1818
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<210> 1819
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<212> DNA
<213> Homo sapiens
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 ccagegeaag egagtgagge ettgteecaa aagataaaaa taagaaaaac tteatetttg 180
 gtotagacat ttgcagotga caaccattca acgatttggt ttttttttag tccatggatt 240
 aaacaatagt gggtcaagaa tgctttttga actttccttg aggaaactag ggaaaccacc 300
 agtgcagtta taattcatac tgtgctgcct ggccccgtca gccttgccgt gtccatgtgt 360
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 <211> 618
 <212> DNA
 <213> Homo sapiens
 <221> unsure
 <222> (609)
<400> 1820
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ccagtggaaa aactaaagtt ccctttgcac accggcacct catcacaaca ccctcttggt 180
gtggatgcca tggggccact gctgtagtca aaagttaaat gaaaaaccaa caagtttagt 240
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gatectagea aggeaacagt gtagttttta catteacaga ttggetgaag tagtacaaat 360
tgagetgeta atetaggtgt etecetecet gttaccatac ttcataagaa atgtgaatta 420
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tacagttagt agagcagaaa cttctaaaat ttaccttttt ccataatgtg cagaatatec 540
taagtatgtt caagagacac agtcagcaga cttcagagtg gtaattacaa gggcattggt 600
aaagaaatna cactcgag
                                     618
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<211> 575
<212> DNA
<213> Homo sapiens
<400> 1821
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geccaggeca cageaggeet tgtagatggg ceagggetge ttaectgtge actaggggtg 180
gtacttggcc etgeeetgge ecetgtgtgg gettateete tgetgagaee attgtggtte 240
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catettaacg ageagetgge tttacaccca gggcgagcag aggtettaaa ttatgcccgt 420
tgtectggag taattfagag cageetettt tgtatteagg cateetggtt tgcatggtaa 480
ggtatgaata cagttgcctt taaacagcac gatgaagtgg gcgggttatt gttctcattt 540
caccaaggag gataatgaac ettagegate, tegag
                                                             575
                                            ٠, ٠
                                                     <210> 1822
                                 Transfer of the second
                                                     on any section with a section of
<211> 288
<212> DNA
<213> Homo sapiens
gaattegegg cegegtegac taageecetg tattateaca aattgteaca tgetgteatg 60 -
tattactttc tccttttctg taatgaccta agccctccat attgtcatgt attgtcacgg 120
attagcagtg cttattctga ccacgtagca gtgtgtttgg tgcatgtgtc taatcaagat 180
ttagttaaat tattatactt tcatatgttg acttgtattt-tcatgggact gatcgctggc 240
gtggagccgg gcgtggaatg cgagtgccta gtgggccacc gcctcgag
                                                            288
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<213> Homo sapiens
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gttacttcca tttgatgata atgatgatga tgatgatgat tatttttgtt attctaagac 240
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<213> Homo sapiens
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<211> 244
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 <211> 596
                                                                             + 4 .
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ettiticaca gagggietet itgageagigt igigagitta acctageaal ceaiggaget 180 🔩
                                                      189
gaactcgag
<210> 1844
<211> 217
<212> DNA
<213> Homo sapiens
                                                               and the meaning
                                                         A TORK SALES TORKER
<400> 1844
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 <211> 326
 <212> DNA
 <213> Homo sapiens
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cttcctgaaa tctcatgagg ggactatgct tagttcctgc tgtttccaca gttcttagga 240
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ggacaggatc catgctgcag aatggtgtct ctgattttga gaccaagtct ttgactatgc 240
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and the second of the second o
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       <213> Homo sapiens
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     graggaragg gragtgttre ggttgaagte etgtgttetg ategggatte tegag 175

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      <210> 1851
                                                                                                                                                                                                   general de la companya de la company
La companya de la co
La companya de la co
      <211> 194-
                                                                                                                                                                                                                                                                               人名英格里 网络人名斯格兰格 化二氯乙基苯
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      <213> Homo sapiens
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     getecetetg agrattgtag aagtgtteea geaeceetat gaagaceaea tteatttgt 180
    cadddatact cdad
                                                                . The second of 
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    <210> 1852
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   <400> 1852 .
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   gtagttacga tatgttatct eggtatagta gteteetett atetgtgggt tetgttacet 180
   gtggtcaact atggtcccct cgag
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  <210> 1853

<211> 199

<212> DNA

<213> Homo sapiens

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   ggacagtttc accgagaaga ttttgaggag agtcgagcta aaaatgagga ggattttgat 180
 agaaggatgg atactcgag
                                                                                                                                                                                                                                                                                                                                                                   199
                                                                                                                                                                                                            in the second of the second was a sign for the second
  <210> 1854
                                                                                                                  and the second of the second s
  <211> 149
  <212> DNA
  <213> Homo sapiens
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 catgitatas teatgitaes greattacts eccetettat efetteestg aegtettite 120 .....
 tgatgtttct tcattcccca ttactcgag
                                                                                                                                                                                                                         e de la composition de la composition
La composition de la
 <210> 1855
 <211> 177
 <212> DNA
 <213> Homo sapiens
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cteaatcatg gacaaagtee getgttteet ggaceteage ttgaaaggee caaccateae 180
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<211> 238
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<211> 152
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   <400> 1861
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   tggctcacac atgtagtccc agettactcg ag
                                                                                                                                                                                                      <210> 1862
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   <210> 1863
  <211> 199
  <212> DNA
                                                                                                                                      and the second s
  <213> Homo sapiens
                                                                                                                                                                            i si ka mala maja sa i
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  <210> 1864
  <211> 257
 <212> DNA
<213> Homo sapiens
                                              The Especial Advances in the second
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 getgggetgt getggaatea eeaacaggea cagaaaaaat gacaacaaaa caacaacaaa 180
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 acccagtaca gctcgag
                                                                                                                                                                                                             257
<210> 1865
<211> 135
<212> DNA
<213> Homo sapiens
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                                                                                                                                                                                                            135
<210> 1866
                                                                                                                                                                                                            <211> 189
                                                           and the second of the second o
<212> DNA
<213> Homo sapiens
                                                                                                                                                                                                                La Branche Barton Com
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tocctcoag
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<211> 200
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nan jarok italian kalendari para menduruh yang berahasi kalendari 246 papa.
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<210> 1884
<211> 336
            The Burst No. Burst No. 1
<212> DNA
<213> Homo sapiens
<400> 1884
                            いりょう Arte (A) My Interval (A) A (A) (A) (A) (A) (A)
Might (Mark Color) (M春年 (May ) (A) (A) (A) (A)
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tttctttctt ttcctggttt cctcttgttt gcaagagggt tgaataggat ggtctctdaa 240
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caccaatart qqqqqtccaq cttcaatacc aagtgttaaa acagattcaa cagttagcca 240
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cagaagttac atateceagt ecagetgtgg aaagettatt ectaacagte ttateteaga 420 ····
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<211> 363
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                                                 ξ,
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<213> Homo sapiens
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<212> DNA
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                                                                                                         304
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 ttectaggtg getgtgetge taatggatae ceagggtgee tttgatagee agteaaceat 240
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<211> 500
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<213> Mus musculus
                              and the second of the second o
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<210> 1905
<211> 514
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<210> 1907.
<211> 337
                                                               Ť
<212> DNA
<213> Xenopus sp.
<400> 1907
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<211> 352
<212> DNA
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<210> 1909
<211> 261
<212> DNA
<213> Xenopus sp.
<400> 1909
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actiticaagt oggagotaga ggoaggggtg gtagaggago aaggggtget gotocatoca 180
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                                                                 261
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<212> DNA
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 geettiggat agatgaggee ggaeggggae eegtigtiggig teetatggit tatggaatet 180
 getactgtee tgtggeeega aagaaggaee tteaagatte aaaggtggea gaeteeaaga 240
 cactgagtga agetgatagg gaacgactgt ttgagaaatt aaatggttct tcagattaca 300
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<211> 444
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gettteatet tagetggaet aatagttggt ggtgettgta tetataaata etttatgeee 240
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cettattace treetgrete agaagaagee gatateegag aagatgacaa tattgeactt 360
ataactettc ctgtaccaaa ctttgcagaa agtgatccag cagcgatact tcatgatttt 420
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                            and principles of the section of the confidence of the data from
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<212> DNA
<213> Xenopus sp.
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<211> 282
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ctccttaaag ccttggggct gaacaccaga ccaaacccca ttgctccagc tcctgtacct 180
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ggtttcggag tacctggaaa tattgtccgc attccactcg ag
                                                               282
<210> 1914
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                                         ing the second second second second
<211> 450
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<212> DNA
 <213> Xenopus sp.
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 cgacctgagg aacccattga acatgtgact gcgtgtcttc aggctttaca tatactgctg 240
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 aatgteetee ategeettet ettaacttgg gatacetett etgtgeaact getggtgact 360
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aatttggaga agcetcacag agetcagatt acagacetga gtacaatget getgetgeta 240
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agceatettg gtggcagttg aacctaaage acaggtacaa agtggagaag gtggtgatag 360
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acgtgacttt tetttttgaa geecageetg caatgaagea teaacatatt etagttttat 240
ttttgctttc catggctgtg attagttttt tggtacatcg caggattgtt aagattccca 300
catttatata tittgaagtca aattgcgagg aggtgacaaa agaagaaaca gaacttcaaa 360
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<213> Xenopus sp.
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ctatectatt etgggggtga etgggaaaga tgaegttttt geeggegget ggattgeeat 240
attergraga thereather tratacting agtertinge atechnicag incagagang 300
gagtegeact atggttetga egtacttggt getgatgatg ategtetata tatttgaatg 360
egectectgt ateacttect teacacacag agattacatg ateaacteca atgtgattaa 420
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<213> Xenopus sp.
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<211> 335
<212> DNA
<213> Kenopus sp.
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agteatactg teagagacag ggegtteeaa tgaattetet caggtttttg tttgaaggge 240
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  <211> 221
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 <213> Xenopus sp.
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 <211> 358
 <212> DNA
 <213> Xenopus sp.
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 gcaaaataag atttcagtat taaacttgag atttctagta ttttttattt gacaaatgac 180
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 <211> 175
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 <213> Xenopus sp.
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ctctgccatc actgctgcaa ctcaacaaaa ttttttcatt ccagagctct tcctgaaaca 420
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<213> Xenopus sp.
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acagagaaga ggategtgtt catcatgact ctcagettag tggtaaagtt catgatgatg 180
cacaaaattt tgactatgac catgatgctt ttctgggtgc cgaggatgca aaaacatttg 240
atcagctaac acctgaagag agcaaggaga gactgggaat gattgtaggt aagatagact 300
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tggataatga tgggtatgtg acggagggg aactgactgc atggatcaag aaagcccaaa 360
   agaagtatgt gtacgacaac gttgagcggc agtggcagga gtttgacctg agccaggatg 420
  gactogtate gigggatgag tacagaaatg teacetatgg cacttacetg gatgateagg 480
  atccagacaa tagcttcaat tacaaacaaa tgatgatgaa gaggctcgag
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    Support to the property of the pr
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  <211> 479
  <211> 4/9
<212> DNA
<213> Xenopus sp.
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  egeactacat gggtaaatge gataacageg gtgeatette agattgteag tgtaceetea 180
  ccatagggcc cgattcccaa ccigtgaact gctcaaaatt aattcctaaa tgttggctga 240
  tgaagagaga gagcettggg acaaaggeag gtegeagagt taaaccagea caageaetta 300
  ttgacaacga tggactgtac aatccagagt gtgatactaa tggggtgttt agggcccggc 360
  agtgcaacaa tactgacacc tgctggtgtg tcaataccgc cggggtcaga agaaccgaca 420
  aaggggacaa aaactggaag tgeceggage tggteagaac taactgggtg attetegag 479
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 ettagtacat etgtgataat tgeattteea ggatgeaaag aeteeggaaa gaetgttaae 180 🐇
 ctgatcgtag caaatggcac aactactgta caaaatattt ccctccaggt accacagtgc 240
 cycettaaac gagatyttyt tytyactaat aatteacayt etyytaatyt geagaetyty 300
 aatgtgggct atcaaataca aaacctacaa ccaggtgacc tcgag
                             BALL OF STATE OF STATES
 <210> 1930
 <211> 324
<212> DNA
 <213> Xenopus sp.
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gigitigatica titigatica etteatitica eccaeaagai ggeagaaaat etteaaatet 180 💮
 egectggtee aattgttagt gteatatggg aacaegttet teetegteet gatagtgatt 240
etggtgetgt tattactaga tgcacttegg gaaatecagg aatatggagt eggggagcag 300
gtggatctta agaataacct cgag no wather on the college of a college of a 324
<210> 1931
<211> 328
<212> DNA
<213> Xenopus sp.
<400> 1931
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ggstetggag geegtgttet geaaatatgg acgtgtggtt gaagttettt taatgaaaga 180
cagagagaca aacaagtcaa gaggctttgc ctttgttacg ttttgaaagcc ctgcggatgc 240%
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<210> 1932

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 <213> Xenopus sp.
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tatagatgac attttaagaa atgctgatgt tgctttagtg aatttctatg ctgactggtg 240
ccgattcagt caaatgctgc accctatatt tgaagaagca tctaatataa tacaagaaga 300
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<211> 280
<212> DNA
<213> Xenopus sp.
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<211> 338
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<211> 118
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<213> Xenopus sp.
<400> 1935
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                                                             and the second s
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   <211> 411
                                                                                                    State of the Late of the Control of
   <212> DNA
  <213> Xenopus sp.
   <400> 1937
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   ctccgtgtgg caaccgggct tegttecett etetttetgt ggetgetgag tttagtggga 180
  gcaaatgaag ggcaggcggc acaggacacc ccacaccggc ggttcgagta taaatacagc 240
   ttcaaaggte ettacetagt geagagegat ggeactgtte etttetggag ceactetgge 300
   aatgcaatto otagogotga toagattagg ataacgcoat otttaaaaag coagaaagga 360
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 gaccgatgtt catticiting ggcctatgct gcatatatag caattcctcc tgttacaaaa 240
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<211> 295
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<213> Xenopus sp.
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ttegtgetea ttateetgat egeteaagtt geageeggaa ttetgattta eetaeagega 360
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<211> 281
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 aaggacaccc taatececet caceteetet ttttattaca ttatgtttgt ggaattagga 360
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<211> 270
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 <210> 1948
 <211> 333
                                                    The Company of the Co
 <212> DNA
 <213> Xenopus sp.
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 teetgtgtgg ettaatacag aggtaaagat gttaatggga aagaagagaa aggcatttaa 240
                                                                                                                                                                                                                                                                                               aaactacaaa tetgtaggga cagaagetge atttaatgaa tataaacaet gtaataaatg 300
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 <211> 284
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 <210> 1950
<211> 536
<212> DNA
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<213> Xenopus sp.
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 gtacagaaga cagtgtccct ctcagccctt ccaactccct caacctgcgt cacctgagag 420
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 <211> 426
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<213> Xenopus sp.
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<211> 324
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<210> 1954
<211> 356
<212> DNA
<213> Xenopus sp.
<400> 1954
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                                                                                                                       356
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                                                                                            (x,y) = (x,y) \cdot (y,y)
 <210> 1955
 <211> 384
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 <213> Xenopus sp.
 <400>. 1955
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<213> Xenopus sp.
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<210> 1957
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<211> 29/
<212> DNA
<213> Xenopus sp.
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acaaagcata cacaggagag cattcaacgc ttcgaactgc aggctggcct cagggatgct 240
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<210> 1958
<211> 256
<212> DNA
<213> Xenopus sp.
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<210> 1959
<211> 329
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<212> DNA
 <213> Xenopus sp.
<400> 1959
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 <213> Xenopus sp.
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 <210> 1961
 <211> 528
 <212> DNA
 <213> Xenopus sp.
 <400> 1961
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 <211> 269
 <212> DNA
 <213> Xenopus sp.
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<211> 267
<212> DNA
<213> Xenopus sp.
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geteetteac acaageacta tggagatgge cagtetaatg atggtgetgg aatgageagt 180
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 <210> 1964
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 <211> 309
 <212> DNA
 <213> Xenopus sp.
 <400> 1964
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 <211> 323
 <212> DNA
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<211> 535
<212> DNA
<213> Xenopus sp.
                                                                                                                                    (38.5, 3.5, 1) = (38.5, 1) \cdot (3.5, 1) = 1.
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cagecactae cetaeggaet gttgeceteg etgtgagaag attggetgtg aatacagagg 360
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cgtagacgga attgeceget geetggtage agaetgtgee cetectecat gegttaacce 480
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    In the state of th
<210> 1967
<211> 281
<212> DNA
<213> Xenopus sp.
<400> 1967
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gcgccactgt ccagaaaatg aggacaagaa agaacaaaat tctcctagtt cttataaagt 180
tgttcctgac cggcctcatg cacataaccc aaacccgggg aaatcttacc gtagtacgga 240
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                                                    -- ---
                                          <210> 1968
                                    <211> 308
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<212> DNA
 <213> Xenopus sp.
 <400> 1968
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 <211> 349
 <212> DNA
 <213> Xenopus sp.
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<211> 319
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<213> Xenopus sp.
<400> 1970
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<211> 302
<212> DNA
<213> Xenopus sp.
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<210> 1972
<211> 438
<212> DNA
<213> Xenopus sp.
<400> 1972
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cgccgggggt gggatttact acgaaaggga cgtcaatgta ttcaaatgca gagacggcaa 240
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  teccegggae tectegag
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 <212> DNA
                                                                                           and the state of t
  <213> Xenopus sp.
 <400> 1973
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 <213> Xenopus sp.
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 aataaatcat tecetttaag tetettgetg ettttaagag cetgeaactg tgetteettg 360
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                                                                                                                      410
 <210> 1975
<211> 320
<212> DNA
                                                                        and the second graph that has been been also been a
                         <213≻ Kenopus sp.
gaattoggac tactacaggt gaatacatct gtgccatcag agcctagcag toctcagage 60 agtacacgta caagtogttc agcttotect gacgatatac ttgaacgagt tgctgcagat 120
gttaaagaat atgagagaga gaatatcgac acatttgaag cetetgtgaa agccaaatat 180 🔩 🕟 🐰
aatctcatga ctgaacagaa taatggtgcg atgcagaaga aattattagc accagacatg 240
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<211> 455
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<213> Xenopus sp.
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cogtocacct gocacagtaa caaatgotgt atogtggaga toagaaggca ttaaatatag 180
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                                                                                                                      455
<210> 1977
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  tgtgtttttt tgttttttt ctttgagtaa acataaagcc tgatttttgt attactttt 240
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 gatgaagatg gggacgagag tatccacaaa ctgaaagaaa aggccaagaa aaggaagggc 180
 agagggtttg gtgcagatga aggcaccaga acgaggatcc gggaagacta tgacagtgtg 240
 gageaggarg gagacgagee ggggeeeeag agatetgtgg aaggetggat cetgtttgtg 300
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 <210> 1979
 <211> 478
 <212> DNA
                                                                Ŧ
 <213> Xenopus sp.
 <400> 1979
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<211> 346
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<213> Xenopus sp.
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acteteteta catggggtta tgaetteaca gagatetttg ceceattaac cagatttaac 180
ccaacacttt gcgccaaatc ctacgcgagg gagaaaacca atctccttgc ttattactta 240
cetttgeete ettatttaga tgageegetg agaatgtaaa ataacattta tacataatat 300
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<210> 1981
<211> 310
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<213> Xenopus sp.
<400> 1981
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 agetgteate agtiggggat tgtggggtea câtgggaget gecaggtitt tgecetgeag 180
 titgtatett teactiteaa tageacagee eeetgeetge eagttagetg ataggeegee 240
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 <211> 341
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 <213> Xenopus sp.
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aactaacatg agacteeceg ggaataagtg getgggggea gegeteette tegtgetaãe 180 🗼
ggtctcgtgt agagtgcgga gcgacgaacc cactggaccc ccatcaactt caacagaaaa 240
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<211> 304
<212> DNA
<213> Xenopus sp:
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ctcaatgtgt ccacaggaca tggtatacgg ctgcaagcgg atttgctaca gtaactgtga 240
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casa
                                                                 304
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gataatggca gggctgctgc tegtagtcgc ctcgctgcta ttaaagctgc cttgaaaaac 300
asaggasage aggaggagee caatgtagag geeecageae tgeetaceea agttgaagaa 360
gttgtgttcg atgcagggtt ttttcgagtc gcaagccctg ccaaagttgc taacagtttt 420
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                                                                474
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 <211> 275
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 <213> Xenopus sp.
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<221> unsure
<222> (61)..(62)
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ccctaagaaa gcacatgaag gttcatgaat cacaagggtc tgattcttcc cctgccgcca 240
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ccaaaaattc atcagcaaca catcagacta acaacaattc tcataacaca ggactacttc 360
cacctaattt taacgaatgg tatgtetgag caaaatgtag agaggcetag teatgeteaa 420
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<212> DNA
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   agaggattig actigiecti caaaacagci galgateega geligieeet talcaaqtae 240
   ggggagttet tgtacgacaa tetaaccate tettececet tegttgaaga tetegggggg 300
   aacataaaca ttgagaccat cagctcattc atcgatggtg gcggaagtgt gctggtggca 360
   gcaagetetg atattgggga coeteteegg gagetgggea gegaatgtgg cattgagttt 420
   gatgaagaa aaacagctgt aattgatcat cataactacg atatctccga cccgggccag 480
   cacacactta ttagggccga cctcgag
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   <211> 294
   <212> DNA
   <213> Xenopus sp.
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  ttttcagett gtgaacaaac aaaagggcat caaccaaagg ggaacaaatt aaatactctg 180
  geactattag cagtgtgttt gtteettaac agecatttee tttgcattgg ttetggatet 240
  cgtagatett tettttttt tttaaatgta tttgtatgea etgtgtaaet egag 294
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  <210> 1991
                                           <213> Xenopus sp.
  <400> 1991
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<213> Xenopus sp.
                                                                              property of the second of the 
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atgtaactgt totcagaagg gttcattttt gagaattgaa tgtctggctg gaaatttctg 180
 attoccataco aaaactgggt ttgtaagooa tatattacat gtgaaacata cattgagtta 240
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ag
                                                                                                                                                                              302
<210> 1993
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<212> DNA
<213> Xenopus sp.
                                                                                                                         in the second of the second of
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atttccttcg tacaaacgga cgcagtctga gaaacggata aagctccatt gcgcacgtac 180
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 gtaatgttct ttatttacag getgetgtat acgcaacttc asattgatet ettttgagea 420
 acggcagtgt aaataaagca cagtattagc ggaaaaccaa tagttagttg cctttgtaca 480
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 <212> DNA
 <213> Xenopus sp.
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aacattettg ctataggett ettgtactgt cegtteaage taacttgatt tataaacete 180
tgcttgttcc tttgcctgag gaatatettc attttcagtt gaagtgaact tgtatcaaat 240
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<211> 325
<212> DNA
<213> Xenopus sp.
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<211> 439
<212> DNA
<213> Xenopus sp.
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<210> 1998
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<211> 409
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     <212> DNA
     <213> Xenopus sp.
                                                                              <400> 1998
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     gagaacgaca aacctaaaat agaggatgtg ggctctgatg aggaaagaga agggaaagat 180
     aagaagaaaa agaccaagaa gatcaaggaa aagtacattg atcaggagga gctgaacaaa 240
     accaageeeg tetggaeeeg caaccetgat gatattacae aggaagagta tggagagtte 300
     tacaagagte tgaccaatga etgggaggat cacetggetg taaagcattt etetgtggaa 360
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    <211> 364
    <212> DNA
    <213> Xenopus sp.
    <400> 1999
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   tragetatte tataacteae ttaaaattae ettaaaggtg aateaceaet ttaageeaeg 180
    tyteteataa gaagaaatga teetacaaar aactttaaag getgaattig gtaaatatti 240
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 Cgaa 360

Cgaa 364

<210> 2000

<211> 308

<212> DNA
  <213> Xenopus sp.
                                                                                                                                                                  and the second of the second o
                                                                                               1. [1] "我这一点,我们就没有一点的。" "我们,我们就是一个我们的,你我们是这样的。"
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  atgeegeeaa gaaggttatt geetetaact acaetggaac eeagggagge etaetgggac 300
                                                                                                                                                                                                                         308
  ttčtcgag
                                                                  (i) A part of the property of the contract 
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  <211> 304
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 <213> Xenopus sp.
                                                                                                                                           on a second in the property of the control of the
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                                                                                                                                                                           304
                                                                                                                                                                                                                             <210> 2002
<211> 372
<212> DNA
                                                                                     Levi Control
                                                                                                                                                              <213> Xenopus sp. 🐇
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  cagcagecat etttggcaaa etttgatatg aacttegtta aatatatata ttttttaega 300
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  <213> Xenopus sp.
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 <211> 414
 <212> DNA
 <213> Xenopus sp.
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 <211> 280
 <212> DNA
 <213> Xenopus sp.
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<211> 319
<212> DNA
<213> Xenopus sp.
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cetaetttea ceaaacatat catetacaag aagetgette tgtgecatgg cagaaatgca 180
agatagteae aatgaaatgg ggetgtaeae eccaaateet gaagtaegtg ggatgaettg 240
totaaatogg gatgotttca ataaaaccat acacgttccg gtaattaaag taaagaaaga 300
aataatcaat agactcgag
                                                                  319
<210> 2007
<211> 315
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 <213> Xenopus sp.
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 <21:1> 332
 <212> DNA
<213> Menopus sp.
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tattttctcc atctttcttg acatgacaat gccctcgag
                   Angelon et al properties et al de la company de la comp
La company de la company d
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pri (1987)

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<211> 432
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ne na militario de la companio de l
La companio de la co
                                                                                                                                            and the same of th
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<213> Xenopus sp.

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<210> 2075 ·
<211> 382
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aatgttaaag cagaaggcag ctcagcaagc agcctcctcc agtgggcagg gccagcaagc 300
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<211> 615
<212> DNA
<213> Xenopus sp.
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gtcatttace tttccctctt gtaggaaagg acttggtgtt ggagcaccgc gtatgaattt 240
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agtttgtatt tggtaatete tagatatgtg ttaatgtttt actetgagtg gtgtgcacet 480
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<210> 2077
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<211> 397

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<212> DNA
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                                                                                                                                            and the second of the second o
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Araba da Ar
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    atgggggcac agtgatecet teacatacac aaatgtegga egeteetgat tgteeegtat 180
    ttaatggagt tcacccacaa gatgctgctg ctgctgctac ttggagtcca atgattaagg 240 /
   tggtgcccag ttcaqtcgaa tgtacggatg cccagaagat gtggccagga acctggacac 300
   cccatattgg aaatgtgcat ttaaagtacg ttaactgaat tagaggaaac cgttcaacac 360
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                                          the state of the contract of the second of t
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   <213> Xenopus sp.
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   aaagaaagaa tttcggaacc ccagcatcta cgagaagctc atccagtttt gctccattga 180
   tgaacttggc actaattacc ctaaagacat gtttgaccca catggatggt ctgaagactc 240
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   aaccacagge acaaccagta ccacaaccac atctacagca gatgctcgag 410
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                                                                                                                                    The second of the control of the second of t
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<213> Xenopus sp.
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 atettittt titttaaat ggggaggtee gteleetigg tigttatigt cageacceta 240
 aatgccaaca tttaacaggg cagagcagag ttttgtgtgt ttttgggggtg cggtagcctg 300
 gegagtetet tgettttece geaaagggge ategggtgge acatattgge agtactecat 360
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<211> 371
<212> DNA
<213> Xenorus en
                                                      and the state of the
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caacactaca gggcagctgg gaactgaaat accccattac tgccaacatt ccatteccac 180
aagcaaagaa atagccagaa agcagaaaag aaagttagga atttgatcag agtgttgagt 240
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                                         aagagetega g
                                                                                                                                             The second of the second
<210> 2081
                                                                <211> 687
<212> DNA
                                                                                                                                                                      and the second of the second
                                                                       * $ 1 . . Y . . . . . . . . . .
<213> Xenopus sp.
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 aaggetggge acaactitge taatgetgat gtacactatg tgaaacgget etgtggaaca 240
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 gacagotttg attocogggo agot<mark>tggooo aactgtocca ccatcoggga gatocgagat 360</mark>
cagggatcat geggetettg etgggegttt ggtgeggttg aagecatete tgategtgtt 420
tgtgttcaca ccaatgggaa ggtgaacgtg gaggtgtctg ctgaagatct cctgtcctgc 480
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<211> 602
<212> DNA
<213> Xenopus sp.
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gtacceteae catagggeee gatteecaae etgtgaactg etcaaaatta atteetaaat 240
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<212> DNA
<213> Xenopus sp.
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gggaggetta cettggeett ttacaggetg aatatacaga aggtgatget etggatgeet 180
tgggcetgaa aaggtaetge tgtcgtegga tgctcctcgc tcacgtcgac ttgattgaga 240
aactgttaaa ctacgcccct ttggagaaat gagggtccgg ttccatccgg tgcaatctag 300
acceatcasa totttaceag cacaggaagg agaacccccg gottccatta taccctacct 360
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aattgccatt gctaatggtt gtgtcaatag agtgacaaag gatgagotga aggcgaaget 300
tgtagagcac aaacttgaca ctagaggtgt taaagatgtg ctgagaaaga gactgaagaa 360
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 ageteateta teaatetgee atttatgetg eccetaatea ettttettet ecttettta 180
 gcaaataaaa ctgaggggat ctcccctcag cctgctgcag agctaggtgt ccaaagccct 240
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 <213> Xenopus ap.
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tgctgttgcc tttgctttaa tgtggctagt tagttcctca gcttgggcta aaggtttgac 180
agatattasa atticcacca gecetcadas tattgigeas astesetgee caetgastis 240
caaatgtetg eetggacaag aategeedat gggaagtetg aacatetetg tggettttgg 300
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<213> Rattus sp.
                                               and the second of the second
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                                                               1.0
caagttettg agateatece aagteatgaa gageaaatta gaactetget geaattggag 180
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<210> 2088
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<213> Rattus sp.
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togagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180
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accettecce agatgteaca ctacatgtea ggteeaggag gatgactege aagteetaca 240
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<212> DNA
<213> Rattus sp.
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tiggaggggt gcaggtetet ceacceaatg aaaatattat aattaataat ceatcaagge 240
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420

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     <213> Rattus sp.
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    gttcaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176
    <210> 2097
    <211> 150
    <212> DNA
   <212> DNA
<213> Rattus sp.
   <400> 2097
                                                                                  and the second of the second o
   gaatteggee aaagaggeet acceccact agaaaaattg ttatgggtat tggcatttat 60
   ttattcatca tatacttatt agggeageta aaaaagteta atgeetetgt catgtattac 120
   cacagaagge aageecagea caaactegag
   <210> 2098
   <211> 323
   <212> DNA
   <213> Rattus sp.
                                                                       The state of the s
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  tetgetggge teaatatgae ceacacactg eggatgggag gaetgetatt gtecacetgt 120
  togagtggcg etgggetgat attgccaagg aatgtgageg gtacttagca cetaagggat 180
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<211> 344
<212> DNA
<213> Rattus sp.
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 <212> DNA
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 gagtggcgct gggctgatat tgccaaggaa tgtgagcggt acttagcacc taagggattt 180
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                                                                    330
<210> 2103
                                                                Ė
<211> 523
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<213> Rattus sp.
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totcatotgg actitgtitt tootgggaac tgcagtitco otgcaggtag atattgtico 240
cagecaagga gaaateageg ttggagagte caaattette etgtgtcaag tggcaggaga 300
tgccaaagat aaggacatet cetggttete eeccaaeggg gagaaaetga geecaaacea 360
gcagcggatc tcagtggtgt ggaacgatga tgactcctct accctcacca tctacaacgc 420
caacattgat gatgccggca tttacaagtg cgtggtcacc gctgaagacg gcacccagtc 480
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<211> 150
<212> DNA
<213> Rattus sp.
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<400> 2105
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 <210> 2106
 <211> 345
 <212> DNA
 <213> Rattus sp.
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<211> 176
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<213> Rattus sp.
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<213> Rattus sp.
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gtteaaagee tgaattgttt ceteatacae taggtactge gteaacatae etegag 176
             化氯甲基乙基酚二甲基苯甲基甲基苯甲基甲基苯基甲基
<210> 2109
<211> 203
<212> DNA
<213> Rattus sp.
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gagatcaagt tettgagate accepagte atgaagagea aattagaact etgetgeaat 180
tgyaggetgå agageatete gag 203 2110 2113 323 212> DNA
<212> DNA
                         and the second of the
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tcgagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180
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atgaattcaa aggatggctc gag
                                                             323
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 <210> 2112
 <211> 203
 <212> DNA
 <213> Rattus sp.
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aataatccat caaggccttg gtgggaaaga tatcaaccaa tcagctacaa aatttgctca 300
aggtotggaa atgamaatga attomaagac atggtgacga ggtgcamcam tgttggtgtc 360
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caggeactge tggetgetga gteatggete teaecteget tgetettgag acaggaccet 180
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<213> Rattus sp.
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  tatatgcctc tgatgaaggg cgggtccaga tgacggcagc tgcottcgca aagggtctct 180
  tggctctaga aggagagctt acceccattc tggttcagat ggtgaaaagt gcaaatatga 240
  acggeetttt ggacagegae agtgaetett tgagtagetg teageagegt gtgaaagega 300
  ggetteatga gataetteag aaagacagag attttacage egaagaetae gagaagetta 360
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  <213> Rattus sp.
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 agetgeatta tigietgice atcitacigg tggicacitt tgigecaact geteiggitt 240
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 <212> DNA

    The second of the
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 togagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180 👾 🔑
ttggaggggt geaggtetet ceacceatg aaaatattat aattaataat ceatcaagge 240
cttggtggga aagatatcaa ccaatcagct acaaaatttg ctcaaggtct ggaaatgaaa 300
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gatggetgae tecaaagete teegtgetet eetgeatggg geetaaatga tggeatgage 180
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aasatcactg gacttcaaac cagaaaaccc agccttgaca cagtacagat gacaaccatc 360
tggctcactt gaatgtaaag cgaccccaca cacacttgca tttgtaggca gggacgctca 420
cattgeteaa ggetteettg geeggaatga agcaaaccag ageteaaacc aagcagagtg 480
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tcaagacacg gaggagaacg ccagatcatt cccagcttcc cagacagaac cacttgaaga 240
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gactggatcc acacagctaa gtctttgctc agtgaacatg gtcaagaaga ggctggaaaa 180
acccaaagca cacagttacc tttccatggg aggctaagct atcaaaagcg gtgttcagtt 240
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atagogotea coatagggto tgtgttocaa agocacacot cagttococo actatoagaa 180
taccatacta gtggttetta actagtaaag getaaagaga acetttaett teccaetate 240
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catcottcct gootaactge cttcctttct tacttctttt tgtttcaaat ctctttctgt 360
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aateteeet aateeeaee eeteettyty gygeagygya eeaggeagee tygagagyee 240
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  tegagtggcg etgggetgat attgccaagg aatgtgageg gtaettagea eetaagggat 180
  tiggaggggt neaggtetet ceacecaatg aaaatattat aattaataat ceateaagge 240
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 caagttgget cagtgggtaa aggtgtttgc tccaaagctt aaagcctggg ctcaatcgcg 240
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                                     of the state of th
cgacagtgat gtcgag
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ggtctagaat tcaatcgg
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 accagttige tggageacag acatgggtgt tetageactt ccaaggggtt etageattee 180
 aggigateta categgicaa gaggagitgg igacatgeta ggaegaetaa aacageteai 240
 totagageta ctaagtgeta caggaggtgt cegagateca gaatgattee ttgttgetgg 300
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atagcattaa aataacagaa gegeeteeag gtetetgaag etteagteee eeagetgaaa 240
gccagaaaag actaagccca ctaagccttt tgatcccttt ggaagcaaag aacttteett 300
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ttagttttat caaaggtgaa taaagttaat tetgtgatte tgagaatgtt aaataatgat 240
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        gccacggtgc ccgtctccga gtgtcatcga ggtcaggggt ggggctcagt cctactcagg 360
                                                    iggac ctcgag
        ageteetigt tggeagggae etegag
                                                                                                                                                                          386
                                                                                                                                                                            garanta da karanta da k
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        <211> 403
                                                                 <212> DNA
        <213> Rattus sp.
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       tittettete tittetegeac ggittitetac egiagtgget ageggageeg geageettee 240 🕟
       caaggeagee etggttgget tgccateete catetggett ataaaagttt getgagtgea 300
       gtccagaggg ctgcgcggct cgtcccctcg gctggcggaa gggggtgacg ctgggcagcg 360
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      ttgtataacc ttggttggcc tggacccaca gagatetgcc ggcctctgcc ttacagtgcg 180
      gagataasaa gcacacacca ccatgcacca ctattttggg tggtgtgggt tacttttgtt 240
      ttgttttgtt ttgttttgtt ttgagaeggt ttetetgtgt agecetgget gteetggade 300
      ctactctgta gaccaggctg gtcttgaact cagatccctc gag 343
      <210> 2135
                                             The specific of the control of the second of the control of the control of the second 
      <211> 150
      <212> DNA
      <213> Rattus sp.
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     ttattcatca tatacttatt agggcageta aaaaagteta atgeetetgt catgtattae 120
     cacagaaggc aagcccagca caaactcgag
                                                                                                                                                                              150
                                               and the second second
The property of the second second
     <210> 2136
                                                                                    (a) The first of the contract of the contra
     <211> 344
<212> DNA
                                                                        . . . .
                                                       <213> Rattus sp.
                                             ander de la fille de la fi
La fille de la
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    etgagacact gtgttccatt tggtgtttct gttcaaatge atcctcattg teetggaaac 180
    cetteeccag atgteacact acatgteagy tecaggagga tgaetegeaa gteetacagg 240
    tttcattacg aaaacttcaa ggttcccagt ggaaacctgg aaaccgtcag ctgatgctca 300
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aagtgaaggt aaacgctttt tcagttcttc tgttttatca aagaaaaagg cattccatcc 180
atccaccatt ctctgtggaa tctgctttcc atcamagatc tcttgcmgaa ctgggatamc 240
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   cgtctcgag 429
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   ttttaaccac tgtctccata ctcataaaag ataaaagaaa tggaaatttc atggtaagtg 180
   gagtattigo oiggioteaa agigottoot cacagaatat tiacigatga cacaggggaa 240
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   agageagetg agetggaaac teteaeggte ateaacatee agggaagaet tagggaettt 480
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  cagtgtgtgc cattccggcg gtataatggt ggagttggta ggtgcgccca ggccaaacag 240
  tggggctgga cacagggacg gtggccaaaa aagagtgctg aatttttgct gcacatgctt 300 🧀
  aaaaatgcag agagtaatgc tgaacttaag ggtttggatg tagactctct ggtcattgaa 360
  cacatccagg tgaacaaggc tectaagatg egcagaegga cetacagage teaeggeegg 420
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                                                                                                                                       -
                                                                                                                         553
 <210> 2144
 <211> 454

    A section of the particular content of the particular con
 <212> DNA
 <213> Rattus sp.
                        a Turking die anglijfen die bekende kan der die provinsie die bestellt die bekende te en beliefen.
Die bestellt die kommen die die bestellt die bestellt die bestellt die bestellt die bestellt die bestellt die
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 gaagggtttg aacatttgag aatggttaat aanattgage cgattgatgg tgggagagac 240
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International application No. PCT/US99/24205

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :C07K 14/435; C12N 15/12 US CL :530/350; 536/23.5		
According to International Patent Classification (IPC) or to be	oth national classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system follo	wed by classification symbols)	
U.S. : 530/350; 536/23.5		
Documentation searched other than minimum documentation to	the extent that such documents are included	in the fields searched
Electronic data base consulted during the international search EMBL5. Genbank, USPAT issued, EMBLest58, Genbanker search terms: sequences corresponding to SEQ ID NO: 48,	stiil	
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim N
X WO 98/42738 A1 (HUMAN GEN October 1998, pages 207-208, position relevant to positions 21-350 of instar	ons 402-730 of SEQ ID NO: 54	4, 8
Database Genbank on STN, Nation Information, (Bethesda, MD), TAKEDA, J., 'Direct Submission,' 1372 relevant to positions 29-385 of in	Accession number C06368, II October 1996, positions 16-	4, 8
Database Genbank on STN, Nation Information (Bethesda, MD), Access CGAP, 'National Cancer Institute, Ca (CGAP), Tumor Gene Index,' 15 relevant to positions 159-24 of instan	ion Number AA491109, NCI- ncer Genome Anatomy Project August 1997, positions 1-136	4, 8
Further documents are listed in the continuation of Box	C. See patent family annex.	
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the inter- date and not in conflict with the appli- the prunciple or theory underlying the	ation but cited to understan
document published on or after the international filing date document which may throw doubts on priority claim(s) or which to	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	
cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use exhibition or other means	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such being obvious to a person skilled in the	top when the document
document published prior to the international filing data but later than the priority data claimed	*A* document member of the same patent i	•
ate of the actual completion of the international search	Date of mailing of the international sear 29 FEB 20	
ame and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer JOHN S. BRUSCA	1
pesimile No. (703) 305-3230	Telephone No. (703) 308-0196	

International application No. PCT/US99/24205

Category*	Citation of document, with indication, where appropriate, of the relevant passage	es Relevant to claim
X.	Database Genbank on STN, National Center for Biotechnology Information (Bethesda, MD) Accession Number AA442056, HILLIER et al, 'WashU-Merck EST Project 1997,' 02 June 199 positions 60-226 relevant to positions 21-187 of instant SEQ II NO: 1192.	7,
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	<i>₹</i>	
	· · · · · · · · · · · · · · · · · · ·	

International application No. PCT/US99/24205

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: Please See Extra Sheet.
I. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International application No. PCT/US99/24205

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack Unity of Invention because they are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for more than one species to be searched, the appropriate additional search fees must be paid. The species are as follows:

The nucleic acids of SEQ ID NO: 1-2159 and the corresponding polypeptides encoded by the nucleic acids of SEQ ID NO: 1-2159.

The claims are deemed to correspond to the species listed above in the following manner:

All claims are drawn to the species indicated above.

The following claims are generic: 1-8

The species listed above do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each species is drawn to a different nucleic acid or corresponding encoded polypeptide. There is no disclosed relationship between the sequences of each individual species.

Restriction to a single species has been waived sua sponte and the Applicants are permitted to have ten species examined without payment of additional fees. The Applicants representative Suzanne Sprunger elected telephonically on 01 February 2000 to have the sequences corresponding to SEQ ID NOS: 48, 79, 267, 531, 724, 802, 993, 1192, 1333, and 1416 searched.